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RCA 20F514TD USER MANUAL

Changing Entertainment. Again.

User's Guide

Find Inside:

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www.rca.com/television

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Important Information

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION: THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

"Changing Entertainment. Again." is a trademark of THOMSON used under license to TTE CORPORATION.

Manufactured under license from Dolby Laboratories.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, black borders (sides, top and bottom), etc. may cause similar damage. This damage is not covered by your warranty.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Important Stand and Base Safety Information
Choose the location for your TV carefully. Place the TV on a stand or base that is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the TV. Refer to the Important Safety Instructions on page 1.

CLASS 1 LASER PRODUCT

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product can also be registered at www.rca.com/television. Registering this product allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. _____ Serial No. _____Purchase Date:_____

Dealer/Address/Phone:_____

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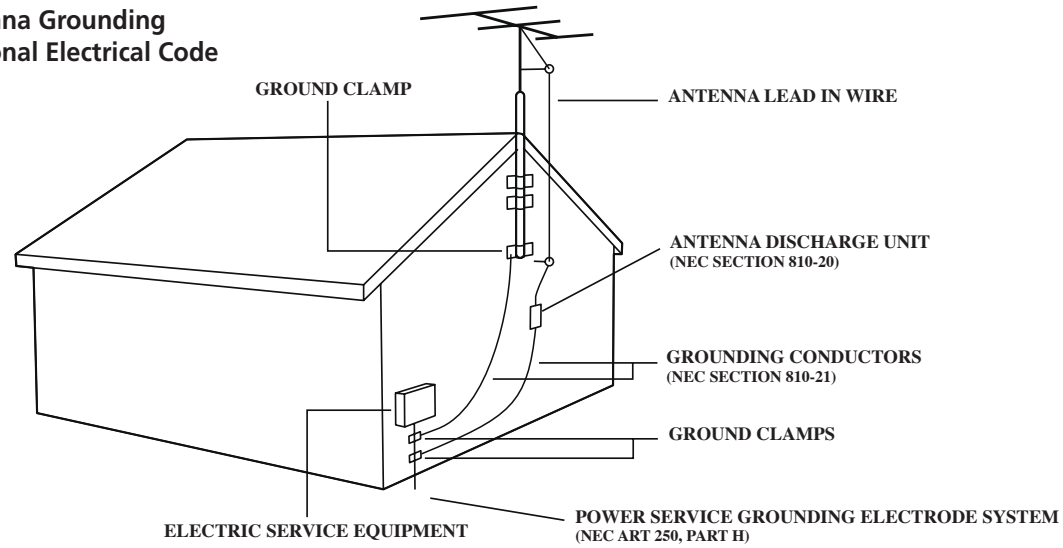
IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
16. **Damage Requiring Service -** The appliance should be serviced by qualified service personnel when:
    - **A.** The power supply cord or the plug has been damaged;
    - **B.** Objects have fallen or liquid has been spilled into the appliance;
    - **C.** The appliance has been exposed to rain;
    - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance;
    - **E.** The appliance has been dropped or the enclosure damaged.
17. **Tilt/Stability -** All televisions must comply with recommended international global safety standards for tilt and stability proper ties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Power Lines -** An outdoor antenna should be located away from power lines.
19. **Outdoor Antenna Grounding -** If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70- 1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
20. **Object and Liquid Entry -** Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
21. **Battery usage CAUTION -** To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
    • Install all batteries correctly, with + and - aligned as marked on the unit.
    • Do not mix batteries (old and new or carbon and alkaline, etc.).
    • Remove batteries when the unit is not used for a long time.
22. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Note to the Cable TV system installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC (Section 54 of the Canadian Electrical Code, Part 1) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electrical Code



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Chapter 1: Connections & Setup

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all devices before you plug any of their power cords into the wall outlet.
- Turn off your unit and/or device before you connect or disconnect any cables.
- Using a surge protector can help prevent damage to your unit from electrical power surges. In case of lightning, unplug your unit.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions on page 1.

Protect Devices from Overheating

- Don't block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
- Don't stack devices.
- If you place devices in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other devices.

Position Cables Properly to Avoid Audio Interference

- Insert each cable firmly into the designated jack.
- If you place devices above your unit, route all cables down the side of the back instead of straight down the middle of the unit.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Use Indirect Light

Don't place your unit where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

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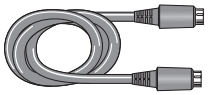
Get the Picture

The first part of connecting your TV is to get the picture, also known as a signal. The back panel of your TV allows you to receive analog and digital channels by using the ANTENNA/CABLE INPUT.

Receiving Cable Channels



Coaxial cable

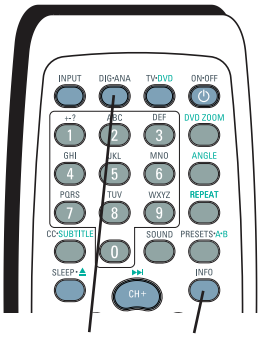
What You Need

Coaxial cable from a cable outlet. Plug the coaxial cable into the ANTENNA/CABLE INPUT to receive your analog and digital cable channels.

What You Need to Know

- This television is equipped with a QAM (Quadrature Amplitude Modulation) tuner that enables reception of unscrambled digital cable content. Check with your cable provider for information about content availability in your area. Your TV also receives analog cable TV channels.
- When you get to the *Auto Channel Search* screen in the *Setup* menu, choose *Cable* as your source type. The TV seaches for both analog and digital channels. To complete a channel search now, go to page 14.
- When you are ready to watch digital channels, make sure you are tuned to a digital channel. Digital stations typically have a dash in their channel number because they may contain subchannels, for example, 8-3.

  When you are ready to watch an analog channel, make sure you are tuned to an analog channel. Analog stations contain no more than three digits. Refer to page 14 for information on analog and digital stations.



DIG•ANA button ***INFO button***

When using the input described above, use the DIG•ANA button on the remote to toggle between the digital and analog channels. Refer to page 14 for more information.

> ***Note**: Another way to see if you're tuned to a digital or analog channel is to press the INFO button. This brings up the Channel Banner screen, discussed on page 19.*

Continues on next page...

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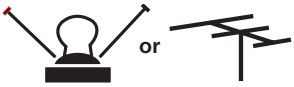
Receiving Channels with an Antenna



Indoor Antenna

Outdoor Antenna

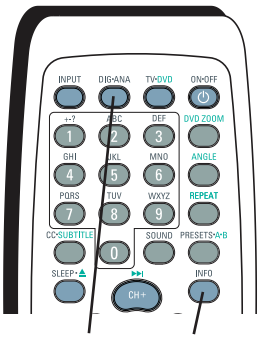
What You Need

Antenna ("rabbit ears") or outdoor antenna with a coaxial cable. Plug the antenna or coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive free off-air local analog and digital channels (where available).

What You Need to Know

- Visit www.antennaweb.org to get help deciding what type of antenna to use to receive the off-air local digital channels available to you. By entering where you live, this mapping program tells you what local analog and digital stations are available using a certain antenna.
- When you get to the *Auto Channel Search* screen in the *Setup* menu, choose *Antenna* as your source type. The TV seaches for both analog and digital channels. To complete a channel search now, go to page 14.
- When you are ready to watch digital channels, make sure you are tuned to a digital channel. Digital stations typically have a dash in them because they may contain subchannels, for example, 8-3.

  When you are ready to watch an analog channel, make sure you are tuned to an analog channel. Analog stations contain no more than three digits. Refer to page 14 for information on analog and digital stations.



DIG•ANA button

INFO button

When using the input described above, use the DIG•ANA button on the remote to toggle between the digital and analog channels. Refer to page 14 for more information.

> ***Note**: Another way to see if you're tuned to a digital or analog channel is to press the INFO button. This brings up the Channel Banner screen, discussed on page 19.*

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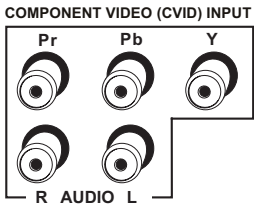
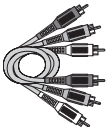
Choose Your Connection

There are several ways to connect devices, depending on what you want to connect and the quality of the signal you want to achieve. A connection using Y Pb Pr (component) jacks is excellent, video (composite) is good and antenna or cable input is fair. Connections will vary according to the types of outputs jacks each external device can accommodate.

Please use the following chart to determine which connection is best for you. Then proceed to the page referenced to make the connection.

Jacks Used	Cables Needed	Go to...
 **Pr Pb Y** **Audio R and L**	**Component Video Cables** **Audio Cables**	**page 8-9**
Video Input **Audio R and L**	 **Audio/Video Cables**	**page 10**

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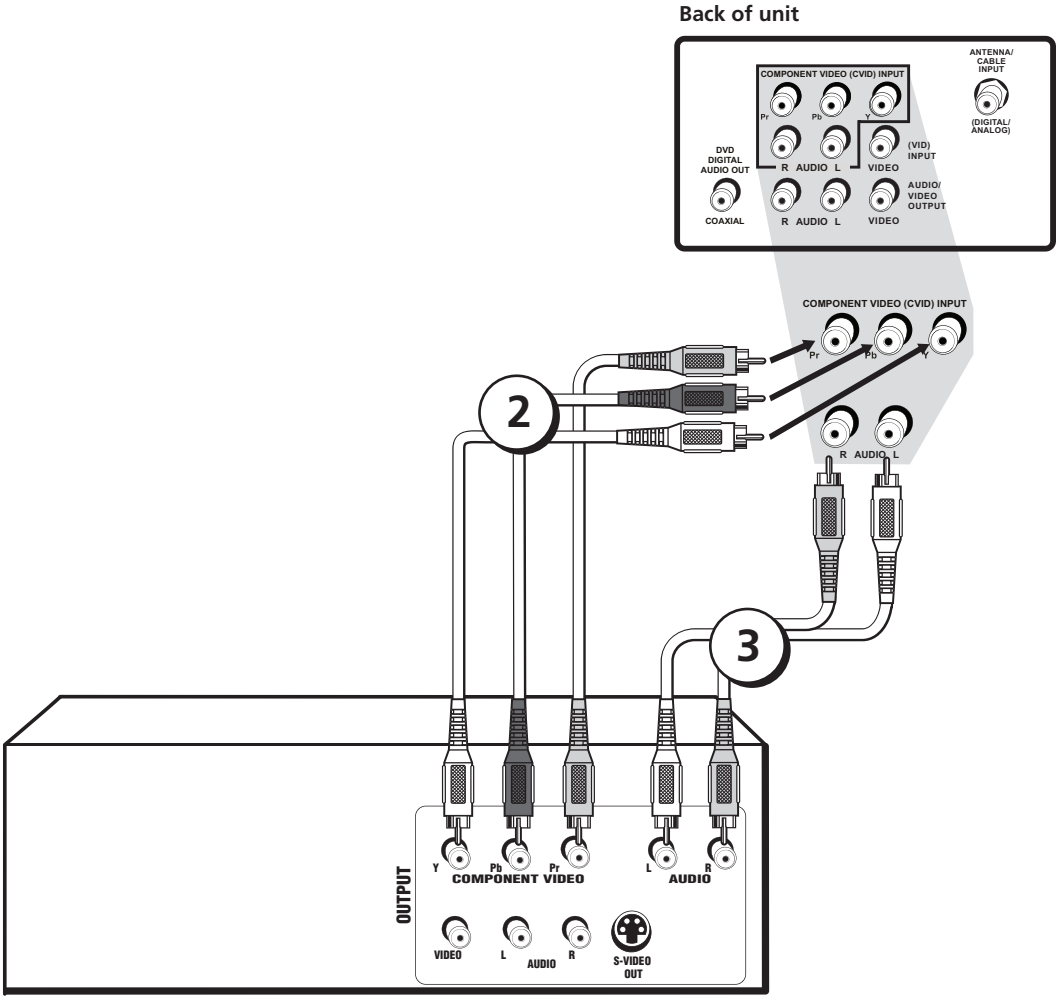
Y Pb Pr (Component Video) Connection



Set top box (Cable box, Satellite box etc.)

If necessary, connect an antenna or cable to get a picture. Go to page 5 for instructions.

Note: *This back panel graphic is for representation only.*

IMPORTANT *- If you aren't receiving a picture with this connection, the problem might be with your Set top box. If the Set top box is "progressive scan," you need to change the setting from progressive to interlace. The procedure for changing this on devices varies. Look for a button on the front of the Set top box (it might be called Resolution or Display), or see if there is a switch on the back (it might be labeled "int/prog" or something similar), or the item might be in the menu system of the Set top box. Consult your Set top box owner's manual for instructions.*

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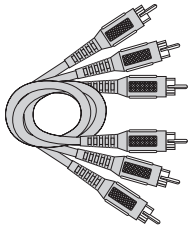
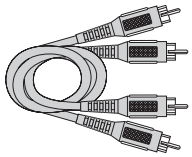
Connecting the Device

This connection allows you to connect a device that has Y Pb Pr jacks (Component Video), for example, a Set top box. If the device you are connecting also has S-Video or composite video, we recommend you use the component video input for better quality.



Component Video cables (Y Pb Pr) are color coded- Green (Y), Blue (Pb) and Red (Pr).



Audio cables are color coded- Red= right audio; white= left audio

Using the example of a Set top box:

1. **If necessary, connect your cable and/or antenna as described on page 5.**
2. **Connect your Y Pb Pr component video cables.**

   Connect three video grade cables to the Y Pb Pr jacks on the back of your unit and to the Y Pb Pr outputs on the Set top box. Y Pb Pr cables are colored green, blue and red. Just match the colors on the cables to the Y Pb Pr jacks.
3. **Connect your audio cables.**

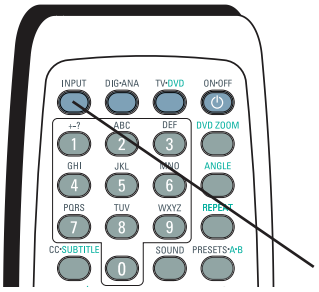
   Connect the audio (red and white) cables to the AUDIO R and L (VID INPUT) jacks on the back of your unit and to the audio output jacks on the Set top box. Just match the colors.

Important *- When using the Component video input (Y Pb Pr) jacks, use only the Audio R/L jacks from VID input (Composite) for this connection.*

Viewing the Picture from the Connected Device

The device in this example, a Set top box, is connected to your unit's Y Pb Pr jacks. To view the Set top box:

1. Turn on your TV/DVD player and the Set top box.
2. Press the INPUT button on the remote control to toggle through the Video Input Channels until you see *CVID* displayed in the channel banner.



INPUT button

• To review other connections, go to the next page.

• If you are done connecting devices to your unit, go to page 13 to complete the Initial Setup.

• If you want more details of the jacks on your TV/DVD player, go to page 11.

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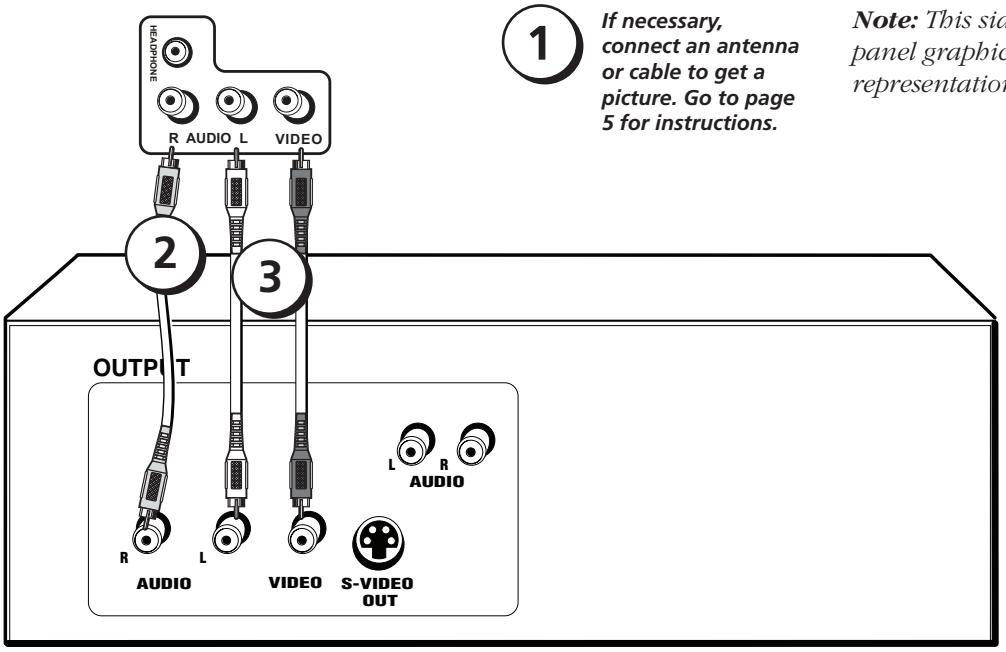
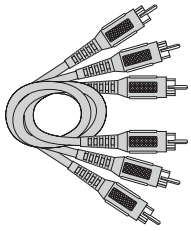
Using the Side Jacks



Video Game Console

1 ***If necessary, connect an antenna or cable to get a picture. Go to page 5 for instructions.***

Note: *This side panel graphic is for representation only.*



Audio/Video cables

Connecting the Device

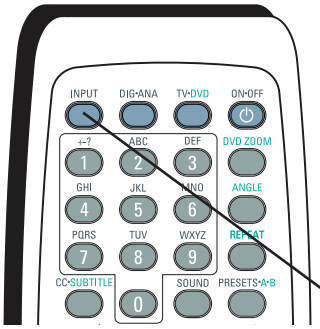
This connection allows you to connect a device, such as a video game console, that has Audio/Video output jacks. Refer to the illustration which uses audio and video cables.

Using the example of a video game console:

1. **If necessary, connect your cable and/or antenna as described on page 5.**
2. **Connect your video cable.**

   Video cables are usually yellow. Connect the Video cable to the VIDEO jack on the side of your product and the VIDEO jack on the video game console.
3. **Connect your audio cables.**

   Connect the audio (red and white) cables to the R and L AUDIO jacks on the side of your product and to the audio output jacks on the video game console. Just match the colors.



INPUT button

Viewing the Picture from the Connected Device

The device in this example, a video game console, is connected to the TV/DVD's video and audio jacks located on the side of your product. To view the video game console:

1. Turn on your TV/DVD player and the video game console.
2. Press the INPUT button on the remote control to toggle through the Video Input Channels until you see *FRNT* displayed in the channel banner (on-screen display).

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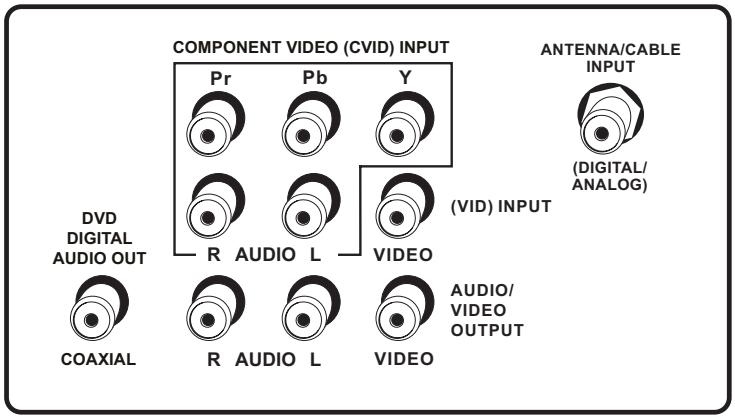
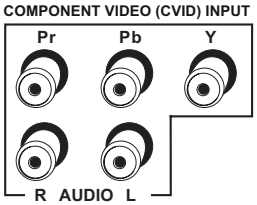
Explanation of Jacks

This section describes the jacks you can use to make connections. There are several combinations available to connect devices to your TV/DVD player.



Note: *This back panel graphic is for representation only.*

ANTENNA/CABLE INPUT Connect a coaxial (RF) cable to receive analog and digital channels through your cable provider. Receive off-air analog and digital programming via an antenna. Connect either an antenna or cable to receive analog and digital channels. Refer to page 5 for more details.



COMPONENT VIDEO (CVID) INPUT Connect devices with component (Y Pb Pr) outputs such as VCRs, DVRs, DVD recorders, satellite receivers, cable boxes and video game consoles. This connection provides optimum picture quality because the video is separated into three signals. Use the AUDIO L and R jacks from the COMPOSITE INPUT to connect for sound.

To access the device when using these jacks, press the INPUT button on your remote until *CVID* appears.

Refer to page 8 for a detailed explanation of how to connect Y Pb Pr cables.

(VID) INPUT (Composite) Connect devices with Audio/Video outputs such as VCRs, satellite receivers, cable boxes, camcorders and video game consoles. Connect the left and right audio jacks for sound.

- **VIDEO** Provides (composite) video connection. The video connector is usually yellow.
- **AUDIO-L** Provides left audio connection. The left audio connector is usually white.
- **AUDIO-R** Provides right audio connection. The right audio connector is usually red.

To access the device when using these jacks, press the INPUT button on your remote until *VID* appears.

Remember: *You cannot use the composite and component connections at the same time. They share the same AUDIO R/L input jacks.*

AUDIO/VIDEO OUTPUT Connect external devices with inputs such as VCRs, video recorders or secondary monitors. Audio/video (composite) cables are used for this connection.

Remember: *Use this jack to output analog TV, DVD video and composite jack signals.*

Continues on next page...

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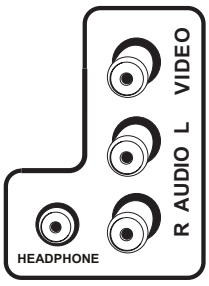
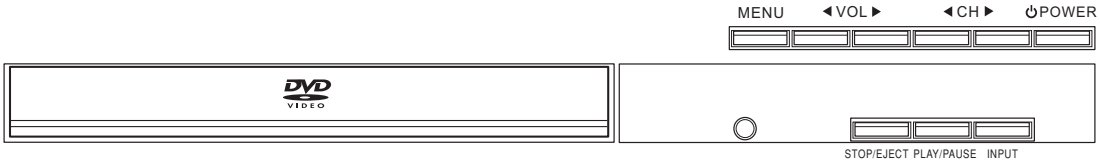
DVD DIGITAL AUDIO OUT (COAXIAL) Use this jack to connect an audio receiver for enhanced sound quality in DVD mode. Make sure you set the Audio output correctly in the *Audio Setup* menu. Go to page 39 for more information.



Side (Input) These jacks are located on the side of your product. Lets you connect devices that have composite outputs such as VCRs, DVD players, satellite receivers, cable boxes, video game consoles and camcorders.

- **AUDIO-L** Provides left audio connection. The left audio connector is usually white.
- **AUDIO-R** Provides right audio connection. The right audio connector is usually red.
- **VIDEO** Provides composite video connection. The video connector is usually yellow.

To access the device when using these jacks, press the INPUT button on your remote until *FRNT* appears.



Front Buttons

These buttons operate many of the TV's features. Button placement per model may vary. Your model has buttons located on the front of your product.

POWER Turns the TV/DVD player on and off.

CHANNEL ◀/▶ In TV mode, changes the channel. Also scans up and down through the current channel list. In the TV menu system, use to navigate the menus. In DVD mode, moves to the next/previous chapter.

VOLUME ◀/▶ Decreases/increases the volume. In the TV menu system, acts like the left/right arrow button on the remote control and adjusts menu controls.

MENU Displays the TV Main menu. If the Main menu is displayed, exits the menu; if a sub-menu is displayed, takes you back to the previous menu.

STOP/EJECT Press to open or close the disc tray. If a disc is playing, stops disc play.

PLAY/PAUSE Begins disc play (press and hold to close disc tray if open). Also pauses disc play. When the disc is paused, press PLAY/PAUSE to resume playback.

INPUT Toggles through the available Video Input Channels (*FRNT, VID, CVID, DVD,* last digital channel or the last analog channel).

> ***Note:*** *If a disc becomes jammed in the disc tray (shown above), unplug all connected devices and unplug the power cord. Place the TV on a soft surface with the screen face down. Make sure the disc tray can open freely and isn't obstructed.*
>
> *Have someone steady the TV so it doesn't fall. Underneath the TV is a long rectangular slot. Inside the slot is a white switch that slides (look on the right side of the slot). You might need a flashlight to see the white switch. Use a thin screwdriver to push the switch to the other side. Now the disc tray opens.*

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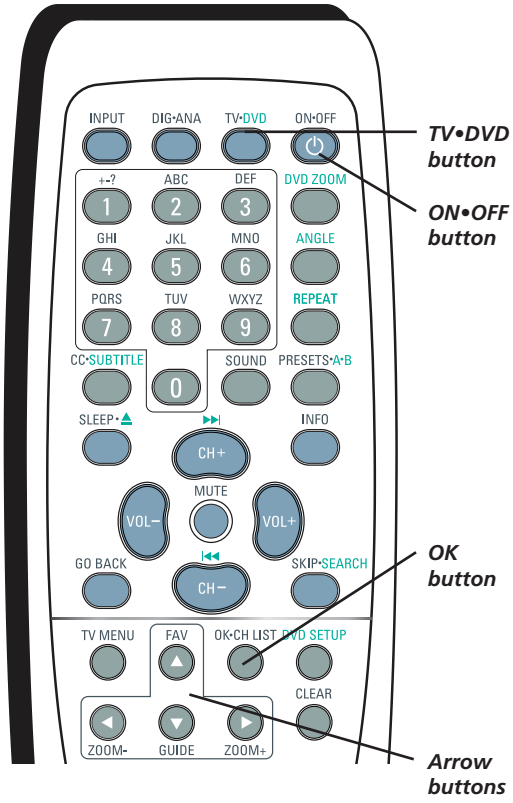
Plug in your Product and Turn It On

Plug the end of the power cord into a grounded wall outlet. Insert the plug completely into the outlet. Press ON•OFF on the remote, or press POWER on the front panel.

Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing down and sliding off the cover.
- Insert 2 fresh "AA" batteries. Make sure the polarities (+ and -) are aligned correctly to the diagram inside the battery compartment.
- Replace the cover.

  Note: *If you won't need to use your remote for a long period of time, remove the batteries to avoid damage due to possible leakage.*



Use the Remote Control to Complete the Initial Setup

The remote control contains buttons that are dual purpose depending on which function (TV or DVD) is being used. Use the TV•DVD button to switch between modes (for example, TV mode or DVD mode). The green button labels are used for DVD functions.

"Navigation" is the technical term describing how to move through the on-screen menus. The method is the same throughout the menu screens: highlight your choice and select it.

To highlight a menu item, press the arrow buttons on the remote to highlight one of the items listed on the screen. Use the up or down arrow button to move up or down. Use the right or left arrow button to move right or left. To select the item that you've highlighted, press OK.

> ***Note:*** *Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter or a different color).*

Continues on next page...

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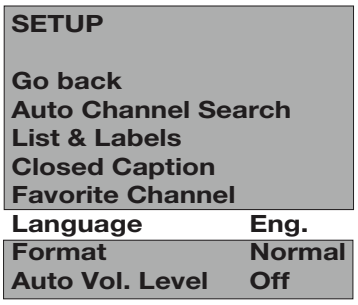
Complete the Initial Setup

Customizing items in the Setup menu allows your product to perform correctly. Make sure you've connected the TV to cable or an off-air signal before you continue.

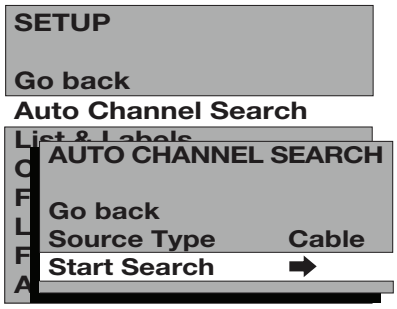


Set the Menu Language

If English is your preferred language, skip this step and go to the Auto Channel Search.

To choose another language, press the TV MENU button and then select OK. This brings up the TV's Main menu. Press the down arrow button to highlight *Setup* and press OK. From the Setup menu, highlight *Language* and press OK. To choose a language other than English, press the right arrow button on the remote.

Note: *Make sure you're in TV mode by pressing the TV•DVD button.*



Auto Channel Search

Auto Channel Search is located from this path *Main Menu/Setup/Auto Channel Search*. It allows your unit to search for all channels available through your ANTENNA/CABLE INPUT jack. This is sometimes called auto programming.

1. From the Auto Channel Search menu press the right arrow button to choose the *Source Type* (*Cable* or *Antenna*). The default is *Cable.*
2. With the *Signal Source* chosen, highlight *Start Search* and press OK. Auto Channel Search runs as it finds all the available channels. The channel search finds both analog and digital channels. (When searching for cable channels, this step can take some time. It can take approximately 30 minutes).
3. Once the search is complete, your unit tunes to a channel. For information on customizing your channels or menu options, go to Chapter 4.

Analog channel entry

Tuning to a Channel

The DIG•ANA button toggles between analog and digital channels. Analog channels display in a rectangle as you enter the numbers. In the example to the left, you can enter 12 or 012 to get the same channel. To enter a one-digit channel, such as channel 8, just press 8. After entering the channel, press OK. The CLEAR button on the remote clears all entries.

Digital channel entry

Digital channels can have both primary channels (like the analog channel number) and subchannels. Digital channel numbers can contain up to six numbers. Numbers to the left of the - (dash) are the main channel number; numbers to the right are the subchannel numbers for stations that broadcast more than one signal.

In the example, press "1", then press "2" (although 012 is shown in the example, pressing "0" isn't required). Now press the right arrow button to move to the subchannel. Press "1" and then "OK." Your product tunes to channel 12-1. If channel 12 is broadcasting subchannel signals, you would enter numbers that access the other signals. (Example: 12-1, 12-2, 12-3). If the selection times out, you must start over.

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Notes: *You may experience a delay of several seconds before digital channels appear. This is normal. Digital channels sometimes take longer to tune.*

To see if you're tuned to a digital or analog channel, press the INFO button. This brings up the Channel Banner screen, discussed on page 19.

If the Channel Search brings up unavailable or blank channels, you might want to get rid of these so they don't appear as you change channels. To do this go to *Main Menu/Setup Menu/ List & Labels*. Removing channels from your channel list may be time consuming, so you might want to do it later. Go to page 26 for details on editing your channel list.

What to Expect

Watching TV

- Your product allows you to change the format of the picture you're viewing. Press the ZOOM– or ZOOM+ buttons to choose different screen formats. Depending on the type of signal you're viewing and how it's being formatted, a different format might not be available. The *Format* option in the Setup menu also changes the screen format. The options are *Normal, Letterbox, Crop,* or *Squeeze*. Page 28 has examples of different screen formats.
- The DIG•ANA button on the remote switches between analog or digital channels. Analog channels are sent in 4:3 (standard) format. Most digital channels are sent in a 16:9 (widescreen) format. You might see gray or black bars at the top and bottom of the screen; it depends on how the station is formatting the video. Press the ZOOM– or ZOOM+ buttons for a different format that might eliminate the bars. 4:3 and 16:9 are also known as aspect ratios.

  Note: *Digital stations in 4:3 format might not be able to have their format changed. (You'll see black or gray bars on the sides of the picture sent as part of the signal from the broadcaster).*

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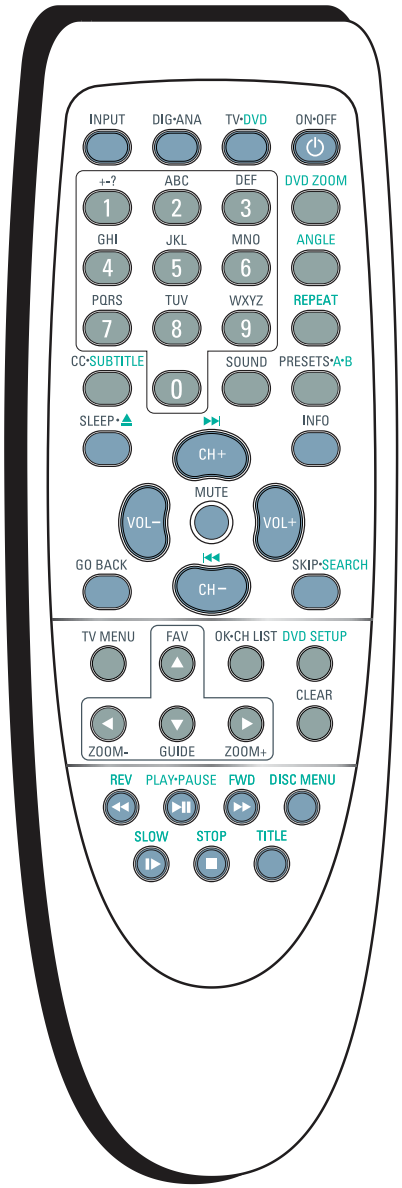
Chapter 2: Using the Remote Control



Note: *If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering, Have your Visa, MasterCard or Discover Card ready.*

Your remote part number is R196A1.

Remote Buttons

TV Function Buttons

Note: *Check to make sure you're in TV mode by pressing the TV•DVD button.*

Arrow buttons (▲, ▼, ◀, ▶) Use to highlight different items in the TV's menus.

ZOOM– or ZOOM+ Selects menu options. During normal TV viewing, changes the screen format (aspect ratio). Refer to page 28 for more information about different screen formats.

(0-9) Number buttons Enter channel numbers (refer to page 14), time settings (refer to page 29), labels (refer to page 26) and notepad messages (refer to page 30).

CC Toggles closed captioning on and off.

CH + or CH – Scans up or down through all the available stations on analog and/or digital mode. Press once to change the channel up or down; press and hold to continuously change channels.

CLEAR Removes most menus or displays from the screen and returns you to normal TV viewing.

DIG•ANA Toggles digital or analog channels. Refer to page 5 for a full description.

FAV (Favorite) Press to browse the channels in your *Favorite List*. Refer to page 28 for more information.

GO BACK Returns to the previous channel or menu.

GUIDE Provides upcoming program information (when available) in digital mode only for the selected channel.

INFO Brings up the channel banner. Press again to remove. Refer to page 19 for more information.

INPUT Toggles through the available Video Input Channels (*FRNT, VID, CVID, DVD,* last digital channel or the last analog channel).

MUTE Reduces your unit's volume to its minimum level. Press again to restore the volume.

OK/CH LIST When in the menu system, selects highlighted items. Also brings up a list of channels found in the channel search.

ON•OFF Turns the TV/DVD player on and off.

PRESETS Brings up the Picture Preset menu. Allows you to set custom picture settings. Choose from *Normal, Bright, Personal* or *Theater*.

SKIP Press once before changing channels; watch the screen for the *SKIP* box (SKIP 00:30) to appear. Press the SKIP button again - 30 seconds will appear. Enter the new channel number. The TV/DVD player will change to the new channel and return to the original channel in 30 seconds. Press repeatedly to add more time. Also removes TV menus from the screen.

SLEEP Allows you to activate/deactivate when the unit turns off by taking you to the *Off Time* menu. Refer to page 29.

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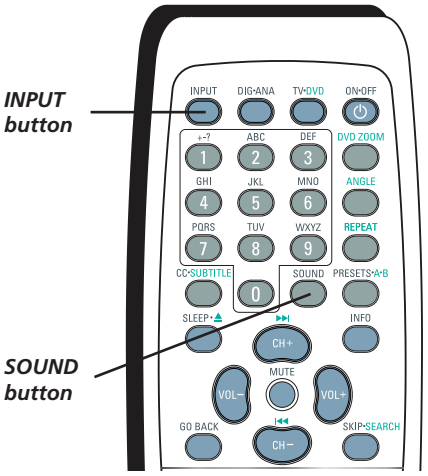
SOUND When a digital channel is being viewed, selects the *Current Language* and *Default Language* options. Refer to page 17 for more information.

TV•DVD Puts the TV in TV mode.

TV MENU Brings up the TV's *MAIN MENU*. Also goes back one menu in the menu system.

VOL - or VOL + Decreases or increases the volume.



Using the INPUT Button

Use the INPUT button to scroll through the available Video Input Channels to view devices you have connected to your unit.

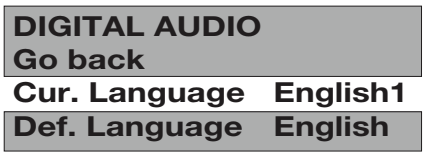
1. Make sure the device you want to view (like a satellite box) is turned ON.
2. Press INPUT to tune to an available Video Input Channel to view the device.
3. Press the INPUT button until you return to the previous channel.

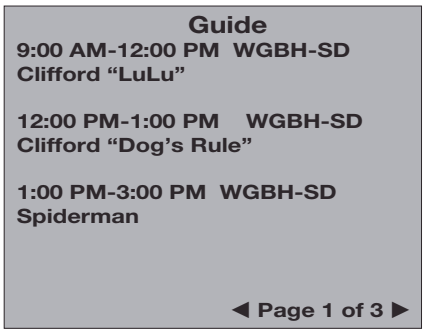
Using the SOUND Button

When in TV mode, the following items are available for digital channels only:

Cur. Language (Current Digital Channel Audio Language) Press the right arrow button to choose the audio language available for the program you're watching. The language you choose becomes the preferred audio language for all channels on the digital tuner until you turn the unit off. If the language you choose here is not being broadcast with a program, then the default audio for the program is played (usually English in the U.S.).

Def. Language (Default Digital Channel Audio Language) Press the right arrow button to choose the dialog language you prefer on digital channels. If your preferred language is being broadcast with a program, it will play. If not, then the default audio for the program will play (usually English in the U.S.). The default digital channel audio language options are *English, Spanish, German, Italian, Japanese, Chinese* and *Korean*.





Using the GUIDE Button

The Guide feature is available for digital broadcasts only. When in TV mode, use the GUIDE button to view current and upcoming TV programming, if available. While the guide screen is shown, content cannot be updated. If there is no program information available, the screen displays, *No program information*.

Use the following remote buttons to navigate the Guide.

Right arrow button (▶) Goes to the next guide page with the first program highlighted.

Left arrow button (◀) Goes to the previous guide page with the first program highlighted.

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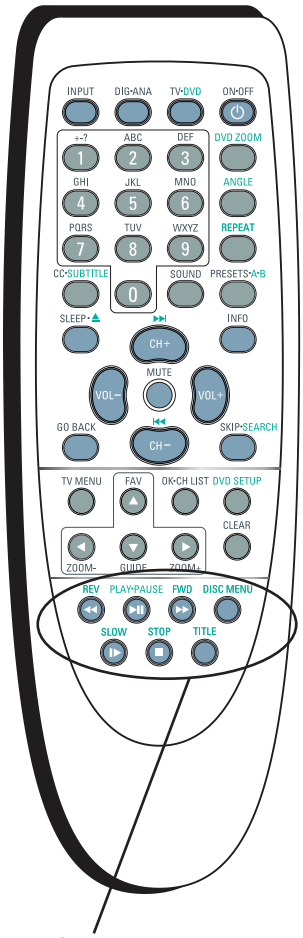

DVD function buttons

DVD Function Buttons

Note: *The green button labels are used for DVD functions. Check to make sure you're in DVD mode by pressing the TV•DVD button.*

(0-9) Number buttons Enter information such as chapter and track numbers (refer to page 33).

⏭ Advances to the next chapter or track.

⏮ Reverses to the preceding chapter or track.

SLEEP•⏏ (OPEN/CLOSE) Press to open or close the disc tray.

A•B Defines a specific segment on the disc that you want to repeat (refer to page 33).

ANGLE Selects the camera angle, if available, on the disc.

Arrow buttons (◀, ▶, ▲, ▼) Press to move through the on-screen DVD menu system.

DISC MENU Displays menus an other options that are available on the current disc (if the disc contains this information).

DVD Puts the TV in DVD mode.

DVD SETUP Pauses playback and brings up the DVD's menu system. Press again to resume playing the disc.

DVD ZOOM Press to magnify the picture. Choose from *Zoom 2, Zoom 3, Zoom 4, Zoom 1/2, Zoom 1/3, Zoom1/4* and *OFF.* Your selection appears momentarily.

▶▶ **FWD (FORWARD)** Searches forward through a disc during playback. Press repeatedly to increase speed.

INFO Displays the title, chapter and elapsed time information during playback. Press again to remove from the screen. Use the SEARCH button to navigate these items. Go to page 33 for more information.

▶/⏸ **PLAY•PAUSE** Begins disc play (press and hold to close disc tray if open). Also pauses disc play. When the disc is paused, press PLAY/PAUSE to resume playback.

REPEAT Press to repeat a chapter or title on DVD, or an audio CD track or the entire disc.

◀◀ **REV (REVERSE)** Searches backward through a disc during playback. Press repeatedly to increase speed.

SEARCH Brings up the title, chapter and elapsed time information during playback. Use the arrow and number buttons to skip to different title, chapter or time locations. Title locations take you to different sections of the disc (like a movie trailer, bonus material, etc.).

SLOW Searches forward slowly through a disc during playback.

SOUND Displays different language options in varying enhanced sound (if available on the disc).

■ **STOP** Stops disc play.

SUBTITLE Brings up an on-screen display that shows what subtitle languages are available (if present on the disc). Choose OFF if you don't want subtitles displayed. Go to page 34 for more information.

TITLE Press to display the Title menu during playback, if available.

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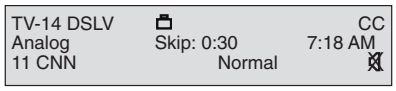
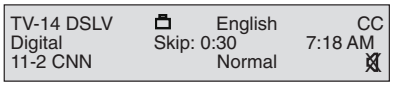


Channel Banner menu for an analog channel.



Channel Banner menu for a digital channel.

Channel Banner

While in TV mode, there are several items that might appear on-screen when you press the INFO button. This display is called the Channel Banner. The following list describes the items on the Channel Banner screen.

TV-14 Displays current program's rating. Refer to page 20 for more information.

Parental Controls Master Enable displays either a lock or unlock icon. (Refer to page 20).

- The lock icon is displayed when the *Parental Control* (Master Enable) setting is active.
- The unlock icon is displayed when the *Parental Control* (Master Enable) setting is deactivated.

English Displays the language currently being heard.

CC Displayed when Closed Captioning is available on the current channel.

Analog/Digital Indicates whether the current signal is analog or digital.

Skip: 0:30 Corresponds to the SKIP button. Displays the amount of time left before the TV switches back to the previous channel. (Refer to page 16).

7:18 AM Displays the current time (entered in the Time menu).

11 CNN/11-2 CNN Displays the current channel and label assigned to the channel. Digital channels also have a subchannel listing (for example, -2). Refer to page 26 for more information.

Normal Displays the current screen format chosen from the Setup menu or when the **ZOOM–** or **ZOOM+** buttons are used.

Displayed when you MUTE the sound.

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Parental Controls and V-Chip

The choices in the *USA V-CHIP* menu involve software inside your product (referred to as V-Chip) which allow you to block TV programs and movies. Once you set Parental Controls to block programs, you can unblock programs by entering a password. Remember to activate *Master Enable* so your settings take effect.

By default, the software inside your product is turned "off." For instructions to turn on V-Chip, refer to *Activate Parental Control* below.

How V-Chip Works

V-Chip reads the program's age-based rating (*TV-MA, TV-14*, etc.) and content themes *(Violence (V), Adult Language (L)*, etc.). Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of Not Rated and programs that are considered "unrated."

The following sections give you more details about how to change the status of TV program limits.

Activate Parental Control

This feature lets you activate and deactivate parental control features. Follow the on-screen instructions to create your password using the number buttons on the remote. If you forget your password, refer to the bottom of this page for instructions on how to change your password.

> ***Note:*** *If you don't activate Master Enable (🔒) and set the password, then none of the Parental Control features will take effect.*

Resetting the Password

If you forget your password, you can reset it. Here is how to do it:

1. Make sure your unit is turned off.
2. Press VOL◀ on the front panel and CLEAR on the remote for approximately 5 seconds. The TV will turn back on.
3. Enter a new password the next time you access the *PARENTAL CONTROL* or the *TIME* menu.

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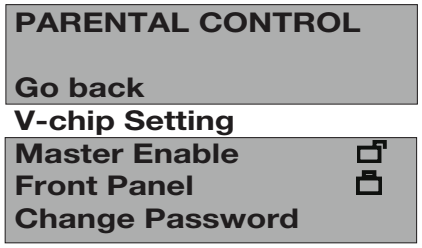
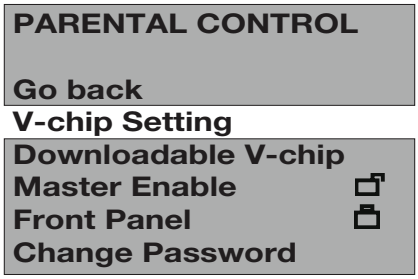


Parental Control menu for an analog signal.



Parental Control menu for a digital signal.

Set V-Chip TV Programming Limits

1. Choose *Parental Control* from the *Main Menu* and press the OK button.
2. Enter your password.
3. Highlight *V-chip Setting*, then press the right arrow button.
4. Highlight *USA TV Content Ratings* and press the right arrow button.
5. Use the arrow buttons to navigate and the OK button to change the status of a TV content theme from unlock (🔓) to lock (🔒).

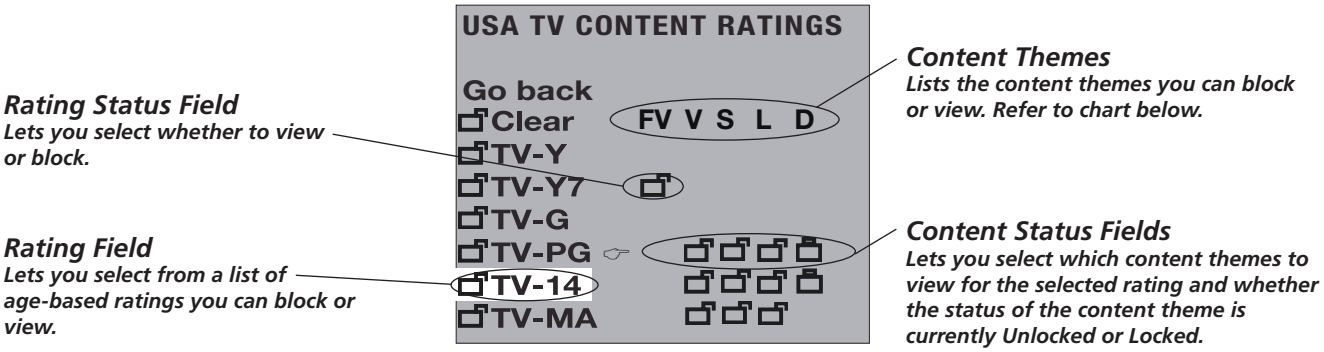
Downloadable V-chip

Since broadcasters have the ability to add new ratings for TV programs, this option lets you define more parameters for your TV viewing, like parental controls. This option and its name are dependent on content from the broadcaster.

> ***Note:*** *Once acquired from a broadcaster, these ratings will be available.*

Content Ratings

The following is an example of where items are located within the *USA Content Ratings* screen.


USA TV CONTENT RATINGS
Go back
Clear
TV-Y
TV-Y7
TV-G
TV-PG
TV-14
TV-MA
FV V S L D
Rating Status Field
Lets you select whether to view or block.
Rating Field
Lets you select from a list of age-based ratings you can block or view.
Content Themes
Lists the content themes you can block or view. Refer to chart below.
Content Status Fields
Lets you select which content themes to view for the selected rating and whether the status of the content theme is currently Unlocked or Locked.

Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence

Blocking Specific Content Themes

You can lock programs based on their content. (Content is represented by the *D, L, S, V* and *FV* on your screen). When you lock a content theme for a particular rating, you automatically lock that content theme for higher rated programs as well.

To lock program content:

1. Determine the content themes you want to lock (🔒).
2. Press the down arrow button to scroll to the rating whose content theme you want to change.
3. Press the right arrow button to move the highlight to a particular content theme status.

Continues on next page...

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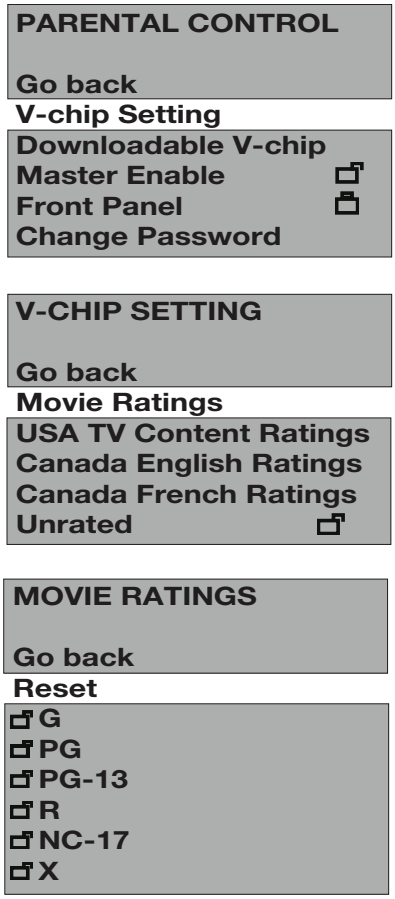
Tip:

Broadcasters are not required to provide content themes or age-based ratings.

4. Press the OK button to change its status to lock (🔒). (In the example on the previous page, you lock the language (*D*) corresponding with *TV-PG*. The dialog for *TV-14* is locked as well).
5. After you lock specific content themes, you can change some of the content themes back to unlock (🔓).

Note: *You must remember to set Master Enable to lock (🔒) in Parental Controls for rating limits to take effect.*



Blocking USA V-Chip Movie Ratings

The *Movie Ratings* menu lets you decide which Movies can and cannot be viewed.

To set Movie programming limits:

1. Choose *Parental Control* from the *Main Menu* and press the OK button.
2. Enter your password.
3. Highlight *V-chip Setting,* then press the right arrow or OK button.
4. Highlight *Movie Ratings* and press the right arrow button.
5. Use the arrow buttons to navigate. Press the OK button to change the status of a TV program rating from unlock (🔓) to lock (🔒).
6. All ratings below the one you selected change to lock.

   Note: *You must remember to set Master Enable to lock (🔒) in Parental Controls for rating limits to take effect.*

   If you forget your password, you can reset it. Make sure your unit is off. Press VOL◀ *on the front panel and then CLEAR on the remote for approximately 5 seconds. Your unit will turn on. Enter a new password the next time you access the PARENTAL CONTROL menu or the TIME menu.*

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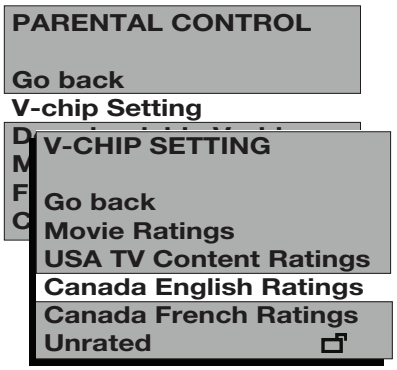
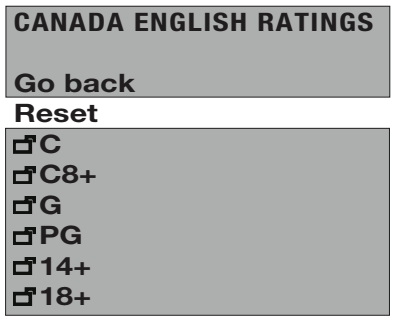
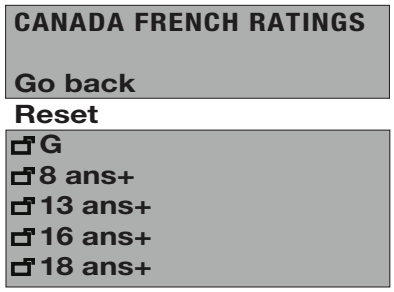






Blocking Canadian V-Chip Movie Ratings

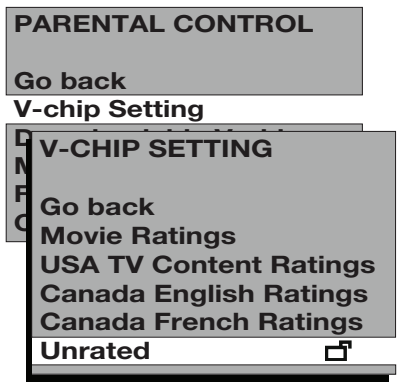
If you receive Canadian programs you can lock *Canadian English* and *Canadian French* ratings. When you lock a particular rating, you automatically lock the higher rated programs as well.

To lock Canadian English and French program ratings:

1. Choose *Parental Control* from the *Main Menu* and press the OK button.
2. Enter your password.
3. Highlight *V-chip Setting*, then press the right arrow button.
4. Highlight *Canada English Ratings* (or *Canada French Ratings*) and press the right arrow button.
5. Determine the rating you want to lock.
6. Use the arrow and OK buttons on your remote to change the status of a TV program rating from unlock (🔓) to lock (🔒).
7. Press the OK button to change the status to lock (🔒) and all ratings below the one you selected change to lock.

Note: *You must remember to set Master Enable to lock (🔒) in Parental Controls for rating limits to take effect. Refer to page 20.*

When a channel is locked, you can temporarily deactivate parental control settings. A menu screen appears when you try to change the channel, press OK and the password screen appears. Now you can reset your password.



Unrated Programs

The *Unrated* option lets you decide if programs that the V-Chip recognizes as unrated can be viewed. Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements and programs without ratings. The *Unrated* option applies to both USA and Canadian unrated programs, and Canadian programs rated E (Exempt).

Unlocked (🔓) All unrated programs are available.

Locked (🔒) All unrated programs are not available.

Go to the *Parental Control* screen and choose *V-chip Setting* and press OK. In the *Unrated* screen press the right arrow button to toggle between the lock (🔒) and unlock (🔓) icon.

Note: *You must remember to set Master Enable to lock (🔒) in Parental Controls for rating limits to take effect. Refer to page 20.*

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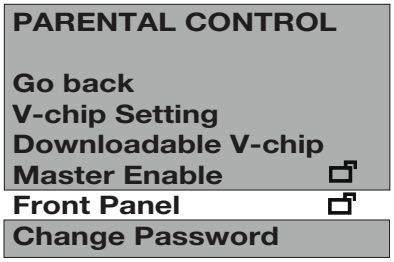

Front Panel

Selecting this option lets you *lock* (disable) or *unlock* (enable) the front panel buttons. The remote still tunes to any channel, so remember to remove access to any remote that can operate the television.

1. Choose *Parental Control* from the *Main Menu* and press the OK button.
2. Enter your password.
3. Press the down arrow to highlight *Front Panel*.
4. Press the right or left arrow button to choose unlock (🔓) or lock (🔒).

Change Your Password

Selecting this option lets you simply create a new password at any time. Once you enter a new password from *Change Password* in the *Parental Control* menu, it is the password you use until you change it again.

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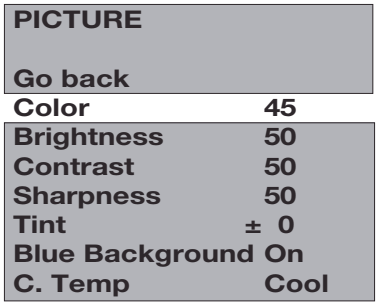


Picture Menu

The *PICTURE* menu options apply to the video for the main TV and Video Input Channels. As you scroll through the options available, the background image will change to fit that choice. Choose the setting that is best for your programs.

Press the left or right arrow button to toggle among the choices listed below:

Color Adjusts the richness of the color.

Brightness Adjusts the brightness of the picture.

Contrast Adjusts the difference between the light and dark areas of the picture.

Sharpness Adjusts the crispness of the edges in the picture.

Tint Adjusts the balance between the red and green levels.

Blue Background Choose *On* and a solid blue background will appear when tuned to a weak channel (for example, if the reception is very poor or if the station has gone off the air for the night). After being on such a channel for 15 minutes, the unit will turn itself off automatically.

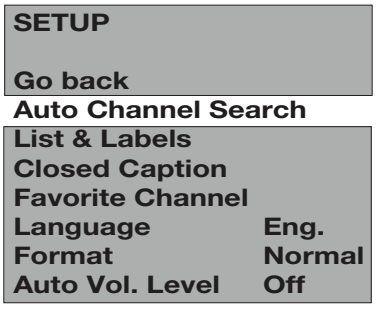
Color Temperature Press the right arrow button to scroll through the color adjustments:

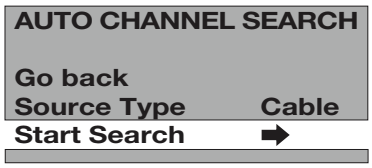
Cool For a more blue palette of colors.

Normal Standard picture color.

Warm For a more red palette of colors.

When you change any of these picture settings, the *Picture Preset* changes to *Personal*. Use the left or right arrow button to make adjustments.





Setup Menu

Auto Channel Search Allows you to choose your signal type and begin automatically searching for available channels.

Press the left or right arrow button to choose among the signal sources below:

Antenna If you have connected an antenna to the ANTENNA/CABLE INPUT, choose *Antenna*. Refer to page 6 for a complete explanation of these connections.

Cable If you have connected cable to the ANTENNA/CABLE INPUT, choose *Cable*. Depending on which package you have, you can receive analog, digital or both stations. Refer to page 5 for a complete explanation of these connections.

After you have made the selections above, use the down arrow button to highlight *Start Search*.

Start Search Press the right arrow or OK button to start the search. Searches for channels the TV is receiving and stores them in the channel list. Displays the percent of channels being searched. After the search is complete, shows the total percent of stations that have been found. Go to page 14 (*Auto Channel Search*) for more information.

Continues on next page...

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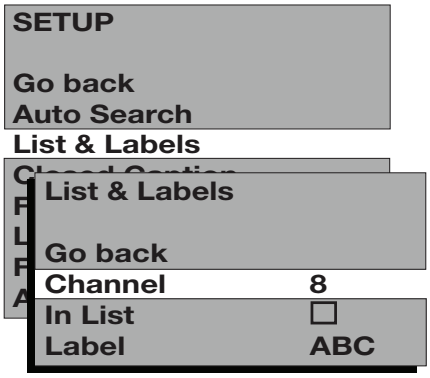


LIST & LABELS menu for analog signals.

List & Labels Edit the channels in the list or choose labels for each channel. Select *Lists & Labels* from the *SETUP* menu and press the right or left arrow button.

Channel Press the right or left arrow button to select the channel number that you want to label. Press the down arrow button to highlight *Label*.

In List This option allows you to keep or delete a channel from the channel list. Follow the procedure for *Channel* (see above) to select the channel. Then highlight *In List* and press the right arrow button to add the check mark. The channel is added to the list. To delete the channel, press the right arrow button to uncheck the box. Press the up arrow button to highlight *Go Back* and press *OK* to exit.

Label For example, if channel 12 has the call letters *ABC*, you can use this feature to label it *ABC* so it appears on-screen as part of the Channel Banner.

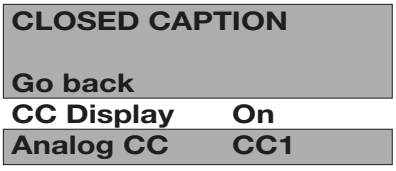
1. Press the right arrow button to highlight the first space.

2. Use the number buttons on your remote to enter your new label. For example, above the number button 7 is the label **PQRS**. The letter **P** is typed by pressing the number 7 button one time; the letter **Q** is typed by pressing the number 7 two times; the letter **R** is three times and the letter **S** is four times.

3. Move spaces with the right and left arrow buttons.

4. Use the up arrow button to highlight *Go Back* and press *OK* to exit this menu when you have finished.

Closed Caption Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on screen. Closed captioning is not available on all channels at all times. Only specific programs encoded with closed-captioning information are applicable. When a program is closed-captioned, *CC* is displayed in the Channel Banner. Refer to page 26 for more information. Press the left or right arrow button to toggle among the choices below:



CLOSED CAPTION menu for analog signals.

The following *Closed Caption* options are available for analog signals:

CC Display Choose the way closed-captioning information is shown on the screen.

Off No captioning information displayed.

On Captioning information appears, when available.

Muted=On Displays captioning information when available, when the TV's sound is muted. Captioning information is not displayed if the sound is not muted.

Analog Closed Caption Choose which captioning mode is used for displaying captioning information. If you are unsure of the differences among the modes, you may prefer to leave the closed-captioned mode set to *CC1*, which displays text of the program in the primary language in your area.

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CLOSED CAPTION	
Go back	
CC Display	On
CC Type	Service1
CC Mode	Broadcast
CC Size	Standard
CC Font	Font 1
CC Opacity	Solid
CC Color	White
CC Bkgrnd.	

CLOSED CAPTION menu for digital signals.

The following *Closed Caption* options are available for digital signals:

CC Display Choose the way closed captioning information is shown on the screen.

Off No captioning information displayed.

On Captioning information always appears, when available.

Muted=On Displays captioning information, when available, whenever the sound is muted by pressing the MUTE button. The captioning information is not displayed when the sound is not muted.

CC Type (Digital Closed-Caption Type) Select a closed caption service mode (1-6) for digital channels.

Service 1 and Service 2 These choices are for the primary and secondary languages, respectively

Service 3 and Services 4, 5, 6 These choices are additional caption sources that may be available.

CC Mode Lets you select between the *Broadcast* and *Customer* options.

Broadcast Captioning information displays using settings sent with the broadcaster's signals (for example, size, color, font).

Customer Lets you customize the settings below.

CC Size Select the size of the digital closed-caption text - *Standard, Large* or *Small*.

CC Font Select a character design for the digital closed-caption text. A font is a complete assortment of type of a given design.

CC Opacity Set the appearance of the space behind the digital closed-caption text: *Solid, Translucent, Transparent* or *Flashing*.

CC Color Choose the color of the digital closed-captioned text: *White, Black, Red, Green, Blue, Yellow, Magenta* or *Cyan*.

CC Background Lets you choose *Edge Color, Edge Type, Background Color,* and *Background Opacity*.

You have many choices available to customize the digital closed-caption display. In order to help you decide which view you like, try this:

1. In the Setup Menu for *Closed Caption*, turn your *CC Display* to *On*. Make sure you're tuned to a digital channel with closed-captioning available.
2. In the same menu, change any setting. Press CLEAR or MENU to exit.
3. Now your screen displays custom closed-captioning. As you change size, font, opacity, caption color or background color, you will see the change in the closed-caption display by waiting for new text to scroll onto the screen. Not all digital stations carry digital closed captioning. If your digital station doesn't carry digital closed captioning, you'll see the station's default style for analog closed captioning.

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FAVORITE CHANNELS	
Go back	
Favorite 1	70 HGTV
Favorite 2	26 WTHR
Favorite 3	75 CNN
Favorite 4	36 WSNB
Favorite 5	28 NICK

Example of FAVORITE CHANNELS menu for analog signals.

Letterbox Format

Crop format (stretched vertically to fill the 4:3 screen)

Favorite Channels Store up to five of your preferred channels for each signal source into a favorite list. There is one list for the analog channels and a separate list for the digital channels. Depending on which mode you're in, that list is created.

To set your favorite channels, go to the *Favorite Channels* option under the *SETUP* menu and press OK. Use the down arrow button to select *Favorite 1* and use the right and left arrow buttons to scroll through the channel numbers to find your favorite.

Find your favorites easily by pressing the FAV button on the remote.

This feature can be very helpful for persons with limited finger dexterity or young children, since it avoids the need to remember channel numbers and press multiple number combinations.

Language Select your preferred language for the menus, that you should have set in the Initial Setup. (Refer to page 14 for more information about setup). Change the language at any time by using the right or left arrow buttons to scroll through the languages (*English, Spanish* and *French*).

Format This feature is designed to alter the digital screen size of certain formats.

Normal This is the full screen display which is for Standard (4:3) TV programs.

Letterbox This is for digital signals, DVD or video programs that are in 16:9 screen size. There are gray or black bars on the top and bottom of the screen.

Crop Digital DVD or video programs that are in 16:9 (Letterbox) screen size normally have gray or black bars on the top and bottom on the screen. This feature takes them off.

Squeeze A 16:9 (Letterbox) image is squeezed to fit a 4:3 format (for digital channels only).

Note: *The Zoom+ and Zoom– buttons on the remote change the screen's format.*

Auto Volume Level This feature reduces blasts in volume during commercial breaks. Eliminates the need to constantly adjust the volume. Press the right arrow button to turn it *On* or *Off*.

Parental Control Menu

The *PARENTAL CONTROL* menu was explained in Chapter 3. Go to page 20 for more information.

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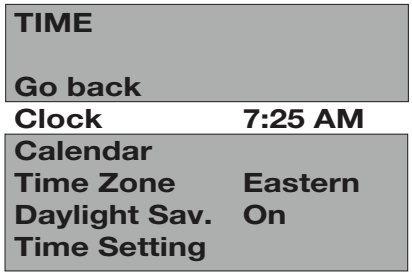
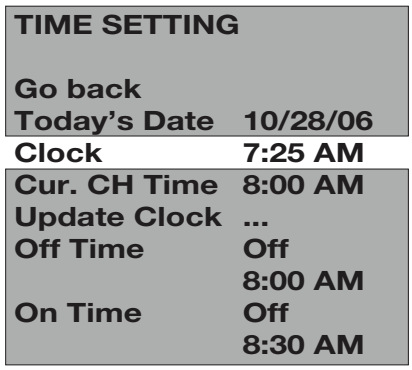


Example of TIME menu for analog and digital signals.



Example of TIME SETTING menu for digital signals.

Time Menu

This menu lets you control several time related functions. Scroll to the item you want to set. Use the right or left arrow button to change the setting.

Note: *Unless the time is set, time related items are unavailable.*

Clock Displays the current time.

Calendar Enables you to set the date easily.

Time Zone Select the time zone you live in. Choose from 9 selections: *Central, Eastern, Mountain, Atlantic, Pacific, Alaska, Hawaii, Newfoundland and Samoa.*

Daylight Saving (available with manual time set only) Set the TV to operate with Daylight Saving Time.

1. Determine if Daylight Saving time is in effect.

2. If so, choose *On* and the clock gains one hour.

3. When Daylight Saving is over, choose *Off* and the clock moves back one hour.

4. Set the time manually.

Time Setting Lets you select more time related functions.

Today's Date Use the number buttons on the remote to set the current date.

Clock To set the time, enter it manually. If it is 7:25, for example, you must first press the number 0 on the remote, then number 7, then 2 and then 5. Use the OK button to choose between *AM* and *PM*.

You can also use the right and left arrow buttons to change the time. Press once to change the time in one minute increments. Press and hold to change in 10 minute increments.

Note: *The INFO button on the remote displays the Clock setting (time) in the Channel Banner.*

Current Channel Time (digital channels only) Acquires the time, if reported, from the current channel.

Update Clock Makes the *Current Channel Time* your default time. The Current Channel Time appears under the *Clock* selection.

Off Time Set the TV to turn off automatically. Select from *Off, Once* and *Daily*. The default is *Off*. You can change the time by using the number or arrow buttons. The SLEEP button on the remote takes you to this preference.

On Time Lets you set the TV to turn on automatically. Select from *Off, Once* and *Daily*. The default is *Off*. You can change the time by using the number or arrow buttons.

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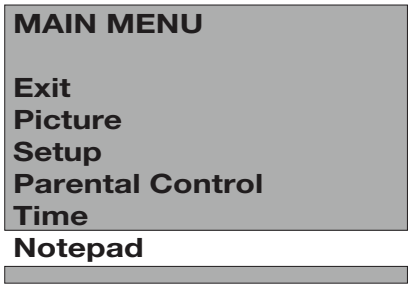

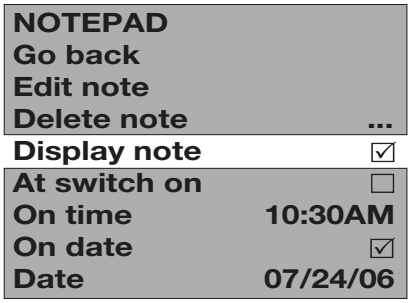

Notepad Menu

Enter messages that will appear on you TV screen at times you select. From the *MAIN MENU* select *Notepad* and press OK.

Edit note Follow the procedure below to enter a message into the notepad:

1. Use the number buttons to enter your new label.
For example, above the number button 7 is the label PQRS. The letter P is typed by pressing the number 7 button one time; the letter Q is typed by pressing the number 7 two times; the letter R is three times and the letter S is four times.

2. The left arrow button is used to delete the unwanted text and the right arrow button inserts a blank space.

3. The up arrow button is pressed to toggle the entry mode between uppercase or lowercase letters.

4. When completed, press the OK button to save the note.

Delete note Lets you delete the whole message.

Display note Enables you to display (the box has check mark) or not to display (the box doesn't have check mark) the message on the screen.

At switch on If the box is checked, the stored message will be displayed on the screen the next time the TV is turned on.

On time Enables you to display the message at a time you specify. The right and left arrow buttons increase/decrease the time. Press and hold these buttons to increase/decrease the time by 10 minute increments. The OK button toggles between *AM* and *PM*.

On date Allows you to display the message on a date you specify.

Date Lets you set the date when the message will be displayed.

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DVD Basics

Regional Coding

The DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. This unit's code is **Region 1**. Discs with other regional codes can't be played in this unit.

Using Different Menus

Each disc is programmed with different features. There are two separate menu systems that you can use to access DVD features: the disc's menu and the DVD player's menu (separate from the TV's menu system). Remember that a feature only works if the disc was programmed with that feature. For example, if you choose subtitles, the subtitles only appear if the disc was created with subtitles. The DVD menu system is explained on page 37.

The Disc menu – The disc menu is part of each disc and is separate from the DVD player's menu system. The contents of each disc's menu vary according to how the disc was created and what features are included. Sometimes a disc's menu appears automatically when you insert the disc, or you can access it by pressing the DISC MENU button.

Types of Discs Your DVD Will Play

- DVD discs – Contain video (such as DVD, DVD-R, DVD+R, DVD-RW and DVD+RW).
- Audio discs – Contain musical or sound content only (such as CD, CD-R, CD-RW, CD-G, SACD and HDCD).
- mp3 discs – Contain audio files (for example, a CD-R with downloaded mp3 files or WMA files- Windows Media Audio).
- CDs with JPEG files.

How to Load and Play a Disc

Turn on your TV/DVD player.

1. Press the TV•DVD button on the remote to make sure the unit is in the DVD mode.
2. Press the SLEEP•⏏ (OPEN/CLOSE) button on the remote to open the disc tray. Place a disc gently into the tray with the disc's label facing up (double-sided discs have content on both sides, so you can place either side up).
3. Press the SLEEP•⏏ (OPEN/CLOSE) or ▶/II (PLAY•PAUSE) button again to close the disc tray.

The player reads the disc's table of contents, and then one of following happens depending on how the disc was programmed: If no picture or screen saver is displayed, press the TV•DVD button to put the player in the DVD mode.

- The disc menu appears. (Highlight the PLAY option and press OK).
- The disc starts playing automatically.
- No disc menu appears, a screen saver is displayed. (Press the TV•DVD button to put the player in DVD mode).

To Stop Playback

1. Press the STOP button once. PRE STOP appears for several seconds. Press ▶/II (PLAY•PAUSE) to resume play at the same point.
2. Press the STOP button twice. STOP appears for several seconds. Playback stops completely. Press ▶/II (PLAY•PAUSE) and playback starts at the beginning of the disc.

   Note: *Some discs might not be written to resume playback.*

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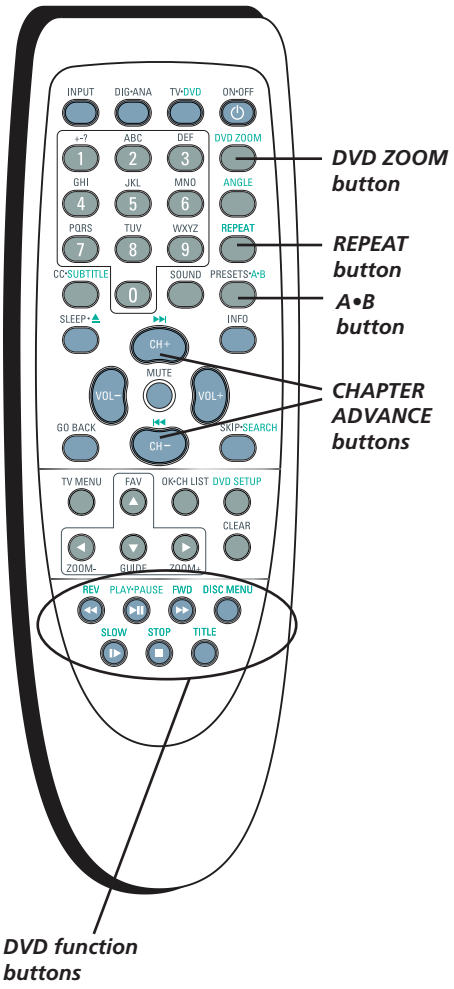
Search Options

You can use the following search features with some discs:



Picture Scan

When you're playing a disc, each time you press ▶▶ (Forward) or ◀◀ (Reverse), your DVD player scans the disc faster until you reach the fastest scan speed. To resume normal playback, press ▶/II (PLAY•PAUSE).

Chapter Advance

While a DVD is playing, press CH+/▶▶I to advance to the next chapter. Press the CH-/I◀◀ button to go to the previous or chapter.

Playback Options

With some discs, you can access playback features directly from the remote control. Playback features aren't usually available during the opening credits of a movie. If a playback feature isn't available, *INVALID ENTRY* appears on the screen.

Slow Motion

1. While you're playing a disc, press SLOW on the remote.
2. Continuing to press SLOW reduces the playback speed by 1/2X, 1/3X, and 1/4, 1/5X, 1/6X, 1/7X and then back to normal playback.
3. Press ▶/II (PLAY•PAUSE) to resume normal playback at any time.

Zoom

1. While you're playing a disc, press DVD ZOOM (the player zooms in on the image). Each time you press DVD ZOOM, the picture is magnified up to 4X. Continually to press DVD ZOOM to reduce the image by 1/2, 1/3, and 1/4 and then back to normal playback
2. To see other parts of the picture when you've zoomed in on the image, try pressing the ◀/▶/▲/▼ buttons to go in corresponding directions.

Repeat

For DVD discs, press the REPEAT button on the remote to repeat a chapter. Press once more to repeat a title. Press three times to repeat the entire disc, and press four times to cancel repeat.

For audio CDs, press REPEAT to repeat a TRACK. Press REPEAT twice to repeat the entire (ALL) disc, and three times to cancel repeat.

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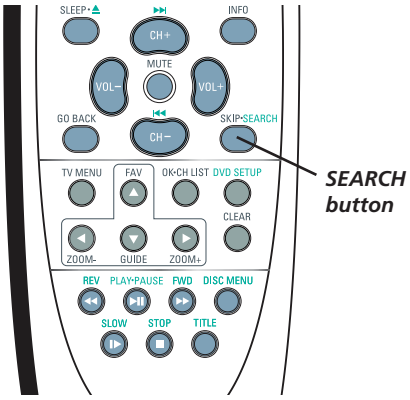
A•B Repeat

This feature lets you define a segment on the disc to repeat.

1. Press the A•B button at the beginning of a segment you want to repeat. This sets point A.
2. Press A•B again at the end of the segment. This sets point B. The player automatically plays the segment from point A to point B repeatedly.
3. Press A•B a third time to disable and go back to normal playback.



DVD Search Feature

You can display information about the disc during playback using the SEARCH button. It allows you to access certain functions. Remember to use the arrow buttons when changing the functions.

Select an option using the ◀ and ▶ buttons and press OK to select, if supported by the DVD. Then use the numeric buttons to enter numbers. Press OK to confirm the selection. Press the SEARCH button to return to playback.

> ***Note:*** *You can press the INFO button to display this feature but the information is not modifiable.*

Select a Title

To directly access a title or a chapter:

1. Select Title (TT) using the ◀ and ▶ buttons.
2. Enter a title or chapter number using the numeric buttons.
3. Press OK.

> ***Note:*** *Instead of pressing the SEARCH button, you can press the TITLE button. Use the arrow buttons to highlight the desired title and press OK or ▶/II (PLAY•PAUSE). Some discs only have one title.*

Select a Chapter

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD). To skip to a specific chapter:

1. Select Chapter (CH) using the ◀ and ▶ buttons.
2. Enter a chapter number using the numeric buttons.
3. Press OK.

> ***Notes:*** *Instead of pressing the SEARCH button, you can press ▶▶I to advance to the next chapter while the disc is playing. Press the I◀◀ button to go to the previous chapter. This also works on audio CDs.*
>
> *You can also press the number buttons to reach a specific chapter. For example, press 0 then 6 to go to Chapter 6. Some discs aren't formatted with separate chapters.*

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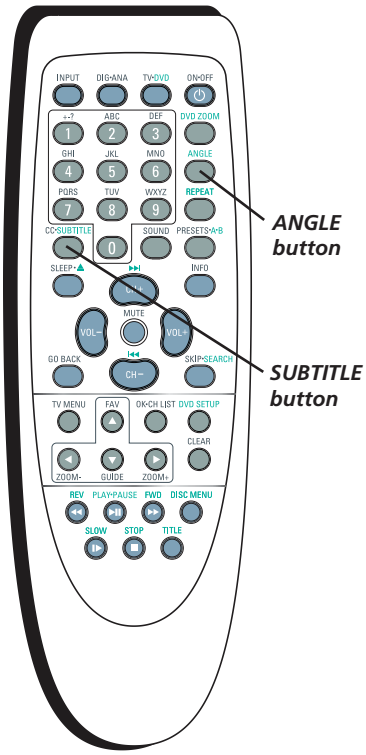
Select a Time

To access a specific point of time on the DVD:

1. Select time (the numbers to the right of the clock icon) with the ◀ and ▶ buttons.
2. Enter the time location in the form of hh:mm:ss (hours, minutes and seconds) with the number buttons.
3. Press OK.

DVD DISPLAY Feature

Press the INFO button twice to display the DVD Display banner. The current language, audio, and subtitles are displayed. The camera icon appears on the screen when footage has angle option available. In this display, the icon shows whether angles are in use. Press the ANGLE button repeatedly on the remote to scroll through camera angles, if available. Press INFO a third time for the display to disappear.



Changing the Camera Angle

Some discs contain scenes which have been shot simultaneously from a number of different camera angles. If the disc has only one angle, this feature won't work. When multiple angles are available, the Camera Angle icon appears in the upper right corner of the screen. To change the camera angle:

1. While you're playing a disc, press ANGLE on the remote. The Camera Angle icon displays the number of angles available. For example, if there are 3 different angles, the icon reads 1 of 3. Therefore angle 1 is currently being played.
2. Press ANGLE repeatedly to scroll through the camera angles.

Disc Features Using the Remote Control

Selecting Subtitles

To change the subtitle language while the disc is playing:

1. Press the SUBTITLE button repeatedly
2. Press SUBTITLE again to scroll through the subtitle languages available on the disc. Choose a language and the subtitles appear in that language.

   Note: *If you change the subtitle language on the Disc Menu your choice of language only applies for the disc currently being played. When you eject the disc and switch off the player, the subtitles will be displayed again in the subtitle language you selected in the DVD SETUP menu. Refer to page 38 for more information.*

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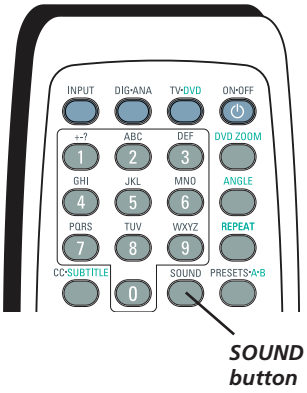

Changing the Audio Language

If the disc was created with different language tracks (recorded in different languages), you can change the DVD's Audio language setting. There are several ways to change the audio.

Changing the Menu Audio Language

1. Set this option while there isn't a disc playing. Press DVD SETUP.
2. Press the right arrow button to go to *Language Setup* and scroll down to *Audio Lang*.
3. Press the right arrow button, then the down arrow button to scroll through the languages that are available on the disc and change the selection. The audio plays in that language.

Changing the Disc Audio Language

There are two ways to change the audio language in the disc menu. This only works if the disc was created with multiple audio tracks.

1. While a disc is playing, press DISC MENU.
2. Depending on how the disc menu was created, look for a selection like *Languages*.
3. Scroll through the languages that are available on the disc and change the selection. The audio plays in that language.

OR

1. You can change the audio language by pressing the SOUND button repeatedly during playback. The number of sound choices will vary according to how the disc was created.

   Note: *When you use the SOUND button your choices only apply to the disc currently being played. You only override the audio language setting in the DVD's menu system temporarily. When you eject the disc and switch off the player, the audio will play in the language you selected in the DVD menu. Go to page 17 for more information.*

DIVX

DivX® is a new format for digital video. It is much like mp3, which is a compression technology that can shrink digital music. DivX technology allows digital video to be compressed to sizes that can be transported over the Internet. DivX is the brand name of a video compression technology created by DivXNetworks,Inc. It is MPEG-4 based video compression technology that maintains high visual quality. This player can play DivX discs.

How to use DivX

The following is a step-by-step process for purchasing and downloading DivX content.

1. Browse web sites and video offerings and select a video to download. For example, content can be downloaded from www.divx.com. (Go to the DivX web site for instructions on viewing free, renting or purchasing content.) The site will also instruct you on the minimum system requirements needed to download content to your computer.
2. Burn your content onto a compatible disc such as CD-ROM or DVD-ROM.
3. Insert the disc in the DVD player and play.

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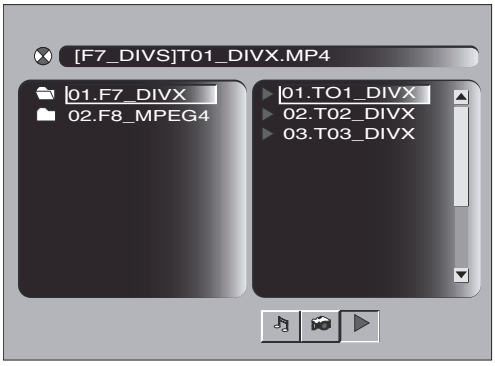

Playing DivX Files

The following are step-by-step instructions on how to play DivX files.

1. Insert the disc.
2. If there is other content on the disc, use the right arrow button on your remote to highlight the arrow icon at the bottom of the screen and press OK.
3. Use the arrow buttons on your remote to highlight the desired file, and press OK.
4. Press STOP to stop playing at any time.
5. Use the arrow buttons to highlight the desired folder, and press PLAY to access all the files in the folder.

   Notes: *If you want to see all the files inside a folder, highlight the folder and press OK.*

Playing mp3, WMA, MPEG-4, VCD and JPEG files

mp3 is an audio file format which compresses recorded music. The main advantage of the mp3 format is the ability to store CD-quality music tracks that are user-friendly and compressed on a personal computer. MPEG4 is a standard used primarily to compress digital audio and video data. WMA (Windows Media Audio) is another audio file format.

VCD (Video Compact Disc) is a standard digital format containing video as well as audio on a compact disc. VCDs use compression called MPEG to store the content. VCDs can be played on this DVD player. JPEG files are image files (for example, photographs). Make sure that they have a resolution of less than 5 megapixels. The time taken for the contents of the disc to be displayed varies according to the size and number of JPEG files actually on the disc. If nothing is displayed after a few minutes, it is likely that certain files are too large. In this case, reduce the files' resolution to less than 5 megapixels and write another disc.

Notes: *Press the CH+ or CH- buttons on the remote to move forward or backward one track or picture at a time (if available).*

Many VCDs don't have a disc menu. They might have a Play Back Control menu or PBC. This will vary by disc.

The arrow buttons allow you to rotate a JPEG image.

Some content may or may not play depending on the mode of compression (codec) used.

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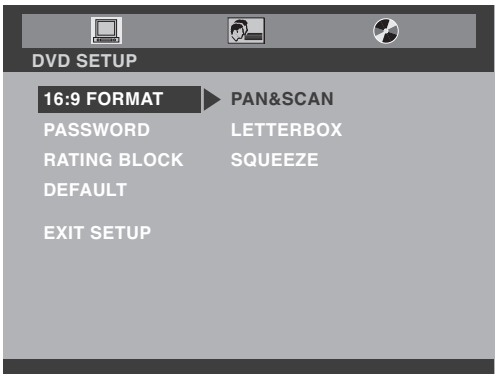
Using the DVD Menus

The DVD menu system is not the same as the disc menu. The DVD's Setup menu comes up when you press DVD SETUP.

DVD Setup

This menu lets you set up basic preferences for the DVD operation.



16:9 Format

This menu adjusts the way a 16:9 (widescreen) movie appears on screen. This TV's screen is 4:3 (standard).

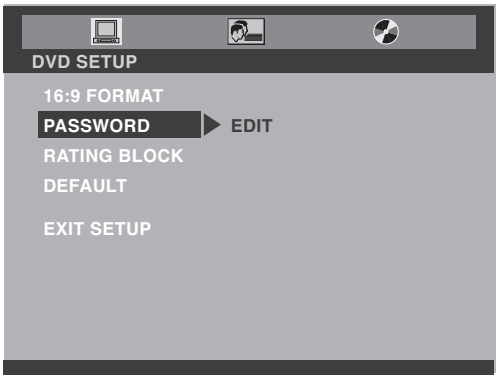
Pan&Scan This setting is preferred for widescreen material (if the disc wasn't written with pan & scan then you'll only see the center of the widescreen image).

Letterbox Lets you view movies in their original aspect ratio (height to width ratio). The entire frame of the movie is shown, but it will take up a smaller portion of the screen vertically. The movie might appear with black bars at the top and bottom of the screen.

Squeeze If you choose this setting, the widescreen image will be vertically compressed on the screen.

To change the image format:

1. Press DVD SETUP, the DVD's main menu appears. Highlight *16:9 Format*.
2. Use arrow buttons to select the desired setting.
3. Press OK to confirm your selection. Press DVD SETUP or CLEAR to exit.



Setting Your Password

This setting is made when there is no disc loaded.

1. Press DVD SETUP, the DVD's main menu appears. Highlight *Password*.
2. Use the right arrow button to highlight *EDIT*. Press OK and the password box appears. Enter the current password (if you haven't set one, you can use 0000) and press OK.
3. Enter your new password, and press OK.
4. Confirm your new password and press OK.

Note: *If you forget your password, you can use 0000. It's the default password for this product.*

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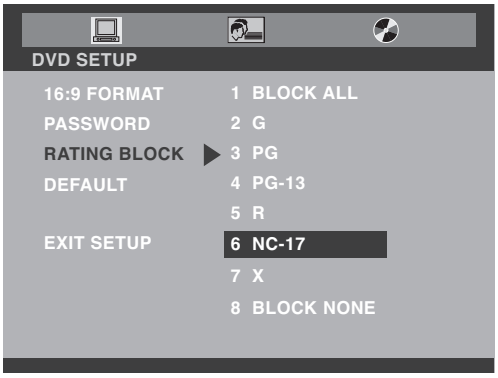
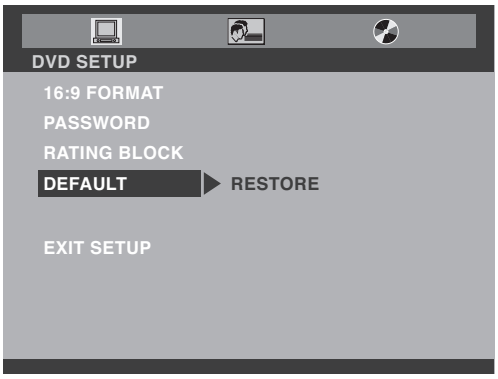


Setting Rating Limits

The Rating feature is similar to movie ratings. It works with DVD discs that have been assigned a rating. It lets you determine the kind of DVD content to be blocked. The Motion Picture Association of America (MPAA) rates movies (for example, G, PG, PG-13, etc.).

In order for a rating to work, the disc must be encoded with rating information. If the disc is not encoded with rating information, then this feature won't work with that disc. To set ratings:

1. Press DVD SETUP, the DVD's main menu appears. Highlight *RATING BLOCK*.
2. You'll automatically block all program ratings in the list below the rating level you choose. Use the arrow buttons to highlight the rating, and then press OK.
3. To activate the rating limit, enter your password and press OK.
4. To exit, press DVD SETUP or CLEAR.



Using the Default Feature

You can use this feature to restore the original factory settings.

1. Highlight *DEFAULT*.
2. Use the arrow button to highlight *RESTORE* and press OK.
3. To exit, press DVD SETUP or CLEAR.

Language Setup

This menu enables you to choose different language options for the DVD's on screen displays, audio, subtitles, disc menu items and DVD main menu items. For the Audio and Subtitle languages, these settings are made when there is no disc loaded.

To change your preferences:

1. From the main menu, highlight the *LANGUAGE SETUP* (the second icon).
2. Highlight the menu option you want to change and press OK.
3. Highlight the language you want to use and press OK. The menu appears with your selection shown next to the language option.
4. To exit, press DVD SETUP or CLEAR.

Notes: *You can change the Audio and Subtitle languages with the remote. Press the SOUND or SUBTITLE button while the disc is playing. These changes only affect disc while it's inserted.*

If you change the language in the DVD SETUP LANG menu, the entire DVD's menu will be displayed in the selected language.

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Audio Setup

This menu lets you select different AUDIO settings to match the equipment you have connected to the DVD DIGITAL AUDIO OUT (COAXIAL) jack. These settings are only available in DVD mode.

DVD Audio Out

Lets you choose a setting for the DVD DIGITAL AUDIO OUT jack for DVD mode.

COAX/ANALOG Use for analog audio connection out to an amplifier.

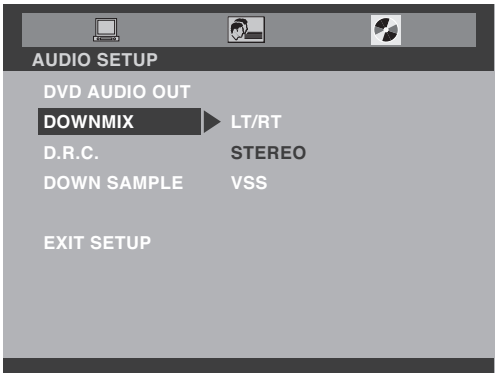
COAX/DIGITAL Outputs the original digital audio. Receive Dolby Digital sound (if transmitted) if you've connected a six-channel receiver to the DVD DIGITAL AUDIO OUT jack.

COAX/PCM Let's you convert the digital audio into PCM format. Choose if your audio receiver only handles PCM.

To change the digital output:

1. Press DVD SETUP, the DVD's main menu appears. Select AUDIO SETUP, the third icon.
2. Select *DVD AUDIO OUT* and press the right arrow button.
3. Use the arrow buttons to highlight your choice and press OK.
4. To exit, press DVD SETUP or CLEAR.

Note: *The settings above affect the DVD audio only.*



Downmix

This option enables you to choose different audio options for the DVD player to output.

LT/RT The audio output is two channels of audio mixed and then encoded with Dolby.

STEREO This is a Dolby Stereo audio effect. Signals of multi-channel audio are mixed into the left and right channel, so sound from channels other than left and right can be heard.

VSS (Virtual Surround Sound) An advanced VSS audio processing algorithm creates a simulated surround sound effect, for use when an external 5.1-channel digital surround sound decoder is not available, or for providing a surround sound effect in second audio zones equipped with only stereo loudspeakers. VSS is down mixed from 5.1-channel or two-channel Dolby Surround-encoded Dolby Digital soundtracks.

To change the DOWNMIX:

1. Press DVD SETUP, the DVD's main menu appears. Select AUDIO SETUP, the third icon.
2. Highlight *DOWNMIX*.
3. Use the arrow buttons to highlight your choice and press OK.
4. To exit, press DVD SETUP or CLEAR.

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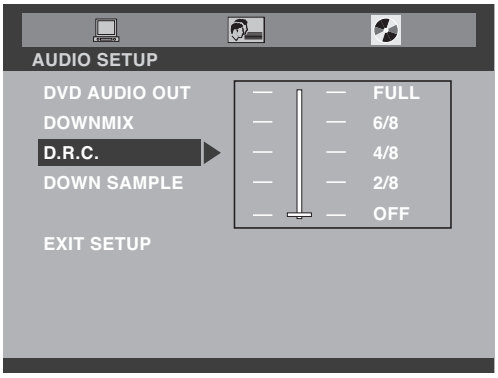


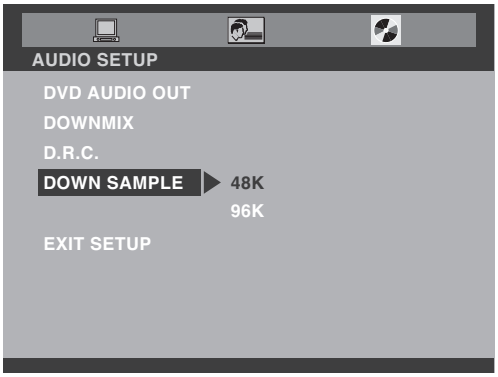
D.R.C. (Dynamic Range Compression)

In Dolby Digital mode, this feature reduces sudden volume changes by letting you adjust the difference between soft and low sounds.

Set the compression ratio to *FULL*, *6/8, 4/8, 2/8*, and *OFF*. For the most range compression, choose *FULL*. The further down on the list you go, the less dynamic range compression available. Therefore, *OFF* has no compression. The default is *OFF*.

To change the D.R.C.:

1. Press DVD SETUP, the DVD's main menu appears. Select AUDIO SETUP, the third icon.
2. Highlight *D.R.C.*
3. Use the arrow buttons to highlight your choice and press OK.
4. To exit, press DVD SETUP or CLEAR.



Down Sample

If your amplifier has 96kHz sampling, choose that, if not, select 48kHz.

1. Press DVD SETUP, the DVD's main menu appears. Select AUDIO SETUP, the third icon.
2. Highlight *DOWN SAMPLE.*
3. Use the arrow buttons to highlight your choice and press OK.
4. To exit, press DVD SETUP or CLEAR.

Notes: *When 96kHz is set, only 96kHz digital audio signals are output from the COAXIAL jack. So if your amplifier only handles 48kHz, you won't hear any audio.*

If you're unsure which selection to make, keep the setting at 48kHz, that's the default.

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Chapter 7: Other Information

Frequently Asked Questions (FAQs)

How do I tell an analog channel from a digital channel?
There are several ways to tell if your channel is digital or not. Press the INFO button to display the channel banner. Look at the left side for a channel number. Channels with a primary channel and a subchannel are digital channels. Remember that not all digital channels have subchannels. Look at the left side of the Channel banner, it will show *Analog* for an analog channel or a *Digital* for a digital channel. Go to page 14 for more information on the difference between analog and digital channels and page 19 for the Channel banner.

Why does the channel search take a long time?
Depending on your connections, when the TV searches for digital channels it is also searching for each sub-channel of that digital channel. This sometimes takes longer, but once you have your channel list setup, you only have to do it once.

Why does channel search find a lot of channels, but when I try to tune to them there's nothing there?
Some channels are enabled by the cable company and don't carry programming, such as video-on-demand. When channels are unavailable, your TV's screen displays *Unusable Signal*. You probably want to get rid of these so they no longer appear in your channel list. Remove these in the *List & Labels* menu. Go to page 26 for more information.

Why are there black bars on my screen and can I get rid of them?

Your TV screen is 4:3 so most digital channels are displayed with gray or black bars at the top and bottom of the screen because most are sent in a 16:9 format. It depends on how the station is formatting the video. Aspect ratios are determined by the broadcaster and may change from one program to another. Use the **ZOOM–** and **ZOOM+** buttons on the remote to see the different TV formats that may eliminate the bars. Go to pages 13 for more information.

No other options are possible for the TV picture, aside from those you see by cycling through this button. However, the default settings for both analog and digital programming can be changed through the TV menus. Go to page 28 for more details.

I'm watching a DVD and there are black bars on my screen. Why are they there?

Your TV screen size is 4:3 (standard). So if you're watching a 16:9 (widescreen) movie and see black bars at the top and bottom of the screen it's because the video has to be compressed to fit the aspect ratio (height to width ratio) of your screen. The *16:9 Format* option in the DVD menu system allows you to adjust how the DVD video is formatted. Press DVD SETUP on the remote and highlight *16:9 Format*. Refer to page 37 for more information.

The **DVD ZOOM** button on the remote also formats (enlarges) the DVD video. The options are *Zoom 2, Zoom 3, Zoom 4, Zoom 1/2, Zoom 1/3, Zoom1/4* and *OFF*. Refer to page 18 for a description.

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Troubleshooting

Most problems you encounter with your TV/DVD can be corrected by consulting the following troubleshooting list.

TV Problems

TV won't turn on

- Make sure the TV is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Something might be wrong with your remote control. Press the POWER button on the front of your product. If it turns on, check the remote control.
- The Front Panel might be locked. Go to page 24 for more information.

Buttons don't work

- The Front Panel might be locked. Go to page 24 for more information.

TV turns off unexpectedly

- *Off Time* might have been activated. Go to page 29 for instructions.
- Electronic protection circuit may have been activated because of a power surge. If this happens frequently, the voltage in your house may be abnormally high or low.

TV turns on unexpectedly

- *On Time* might have been set. Go to page 29 for instructions.

Blank screen

- You may be on an inactive channel. Try another channel.
- Make sure devices connected to the TV are turned on.
- If you've connected another device (such as a camcorder or DVD player) make sure you select the Video Input Channel that is used for that device. Use the INPUT button to toggle through the available Video Input Channels.

Digital tuning delayed

- You may experience a delay of several seconds before digital pictures appear. This can happen when you first tune to a digital channel and when you change channels. This is normal.

No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound.
- If using the Y, Pb, Pr jacks, remember to connect the device's left and right audio output jacks to the TV's AUDIO input jacks.

Can't select certain channel

- Channel may be blocked or not approved through Parental Controls.
- Try pressing the DIG/ANA button on the remote. This button toggles between digital and analog channel sources.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

No picture, no sound but TV is on

- Maybe the *Source Type* is set wrong. Go to page 25 for more instructions.
- You may have the wrong video input channel selected. Use the INPUT button to toggle through the available video input channels.
- If the device you're connected to has "progressive scan" and you aren't receiving a picture using a component (Y Pb Pr) connection, you need to change the setting from progressive to interlace. The procedure for changing this varies. Look for a button on the front of the device (it might be called resolution or display), or see if there is a switch on the back (it might be labeled "int/prog" or something similar), or the item might be in the menu system. Consult the user's guide for instructions.

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Sound okay, picture poor (analog channels only)

- Check your connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting the *Sharpness* menu item to improve weak signals. Go to page 25 for more instructions.

Black box appears on the screen

- Closed caption might be on. Check this setting in the *SETUP* menu. Go to page 26 for more instructions.

The Remote Control Doesn't Work

- Something might be between the remote and the remote sensor on the device. Make sure there is a clear path and point directly at the TV.
- Make sure the remote is pointed directly at the remote sensor on the front of the unit.
- Maybe batteries in the remote are weak, dead or installed incorrectly. Put new batteries in the remote.

Problems with Parental Controls

Can't select a certain channel

- The channel may be blocked or not approved through parental control settings.

The rating limits don't work

- You must set *Master Enable* to lock (🔒). Go to page 20 for instructions.

I don't remember my password and I want to unlock the TV

- If you forget your password, you can reset it. Make sure the TV is off. Press VOL- on the TV's front panel and then CLEAR on the remote for approximately 5 seconds. The TV turns on. Enter a new password next time you access the *PARENTAL CONTROL* menu or the *TIME* menu.

The Parental Controls won't let me watch a program even though it's not rated as violent

- Maybe the movie is unrated. Check to see if the *Unrated* option is set to lock (🔒). Go to page 23 for instructions.

DVD Player Problems

Disc Won't Play

- Insert a disc with the label side facing up.
- Check to make sure the disc is within the guides on the disc tray.
- Check that the disc is free of dirt, dust, smudges and fingerprints.
- Check the type of disc you put into the disc tray. This TV/DVD player only plays DVD video discs, Video CDs, audio CDs, DivX discs and mp3s.
- Both the player and disc are coded by region. If the regional codes don't match, the disc can't be played. This product is Region No. 1.
- Check to see if rating limits have been set. Go to page 38 for more information.

DVD Picture Problems

- If picture is distorted, the disc might be damaged. Try another disc.
- During forward and reverse scanning, it is normal to see some picture distortion.
- Make sure you have selected the correct format option. Go to page 37 for more information.

Continues on next page...

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Disc Tray is Jammed

- If a disc becomes jammed in the disc tray, unplug all connected devices and unplug the power cord. Place the TV on a soft surface with the screen face down. Make sure the disc tray can open freely and isn't obstructed.

  Have someone steady the TV so it doesn't fall. Underneath the TV is a long rectangular slot. Inside the slot is a white switch that slides (look on the right side of the slot). You might need a flashlight to see the white switch. Use a thin screwdriver to push the switch to the other side. Now the disc tray opens.

DVD Sound Problems

- Check whether the sound is muted or turned down low.
- You may need to adjust the settings in the AUDIO SETUP menu. Refer to page 39.
- Sound is muted during still, frame advance, or slow-motion play.

DVD Menu Problems

- If the disc menus are not displayed in your language, read the disc jacket to see what languages are available on the disc.
- If there are no subtitles, read the disc jacket to see if subtitles are available on the disc. Refer to page 34 for more information on Subtitles.
- The default audio language might be preset by the DVD disc. Refer to page 35 for instructions.
- You can change the subtitle language while the disc is playing by pressing the SUBTITLE button. This selection applies only to the disc being played.
- If the DVD player's menus are not displayed in the language you want, check that your language is among those listed in the LANGUAGE SETUP menu. Refer to page 38 for more information. If necessary, choose another language.
- To clear a menu from the screen, press DVD SETUP or CLEAR.

DVD Rating Problems

- If ratings don't work, you must lock the settings. Refer to page 38 and follow the directions for the RATING BLOCK menu.
- If you forget your password, use 0000. It's the default password for this product.

Connection Problems with a Set-top Box etc.

- If the device you're connected to has "progressive scan" and you aren't receiving a picture using a component (Y Pb Pr) connection, you need to change the setting from progressive to interlace. The procedure for changing this varies. Look for a button on the front of the device (it might be called resolution or display), or see if there is a switch on the back (it might be labeled "int/prog" or something similar), or the item might be in the menu system. Consult the user's guide for instructions.

What Else Can I Do?

- If you've been through the Troubleshooting section and nothing has fixed your problem, try rebooting your unit. Note that after a reboot you may need to run the setup process again. To do a reboot, unplug the power cord from the wall outlet, power strip, etc. Unplug your unit for about 5 minutes. Then plug it back in, turn it back on, and see if the problem is fixed. If the problem remains, then please visit www.rca.com/television for updated FAQs or contact RCA Customer Support at the support number provided in your Warranty under *How To Get Service*.

How Do I Replace My Remote?

- If you need to replace your remote, call 1-800-338-0376. Your remote part number is R196A1. A shipping and handling fee is charged with your order and the appropriate sales tax. Have your Visa, MasterCard or Discover Card ready.

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USA V-Chip Rating System

TV-MA	**(Mature Audience Only)** Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).
TV-14	**(Parents Strongly Cautioned)** Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).
TV-PG	**(Parental Guidance Suggested)** Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).
TV-G	**(General Audience)** Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).
TV-Y7	**(Directed to Children 7 years and older)** Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.
TV-Y	**(All Children)** Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

Canadian English V-Chip Rating System

18+	**(Adults)** Programming intended for adults 18 and older. It may contain elements of violence, language, and sexual content which could make it unsuitable for viewers under 18. Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.
14+	**(Viewers 14 and over)** Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
PG	**(Parental Guidance)** Programming intended for a general audience but which may not be suitable for younger children (under the age of 8). Parents may consider some content inappropriate for unsupervised viewing by children aged 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.

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Canadian English V-Chip Rating System (continued)

G	**(General Audience)** Programming considered acceptable for all age groups. While not designed specifically for children, it is understood younger viewers may be part of the audience. Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.
C8+	**(Children 8 and Older)** Programming generally considered acceptable for children 8 years and over to watch on their own. Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
C	**(Children)** Programming intended for children under age 8. Violence Guidelines: Careful attention is paid to themes which could threaten children's sense of security and well being. There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.

Canadian French V-Chip Rating System

18+	***(Adults)*** Programming is for adults only. This program contains sustained violence or extremely violent scenes. 16+ (Viewers 16 and over) Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.
13+	***(Viewers 13 and over)*** Programming may not be suitable for children under the age of 13. This program either contains several violent scenes or one or more scenes that are violent enough to affect them. Viewing in the company of an adult is therefore strongly recommended for children under the age of 13.
8+	***(Viewers 8 and over)*** Not recommended for young children. This program is suitable for most audiences, but it contains mild or occasional violence that could upset young children. Viewing in the company of an adult is therefore recommended for young children (under the age of 8) who do not distinguish between reality and imagination.
G	***(General Audience)*** This program is suitable for audiences of all ages. It contains no violence, or any violence that it does contain is either minimal or is presented in a humorous manner, as a caricature, or in an unrealistic way.

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Limited Warranty

What your warranty covers:

- Defects in materials or workmanship.

For how long after your purchase:

- 90 days from date of purchase for labor charges. At our option we will either pay an Authorized RCA Service Center the labor to repair your television or replace your television with a new or refurbished unit.
- One year from date of purchase for parts. At our option we will either supply new or refurbished parts to an Authorized RCA Service Center for them to repair your television or replace your television with a new or refurbished unit. After 90 days, labor charges will be at your expense.
- One year from date of purchase for the picture tube. At our option we will either supply new or refurbished parts to an Authorized RCA Service Center for them to repair your television or replace your television with a new or refurbished unit. After 90 days, labor charges will be at your expense.

How you get service:

- Call 1-800-336-1900 or visit www.rca.com. Please have your unit's date of purchase and model/serial number ready. The model/serial number information can be found on the back of your unit.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your television. Any additional information should be obtained from your dealer).
- Installation and related adjustments.
- Signal reception problems not caused by your television.
- Damage from misuse or neglect.
- Batteries.
- Customer replacement fuses.
- Damage from images burnt onto the screen.
- Special, incidental or consequential damages.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- A television purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.

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Other Information

Product registration:

- Please complete and mail the Product Registration Card packed with your TV. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE OR MODIFY THE SCOPE OF THIS WARRANTY.
- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TTE TECHNOLOGY, INC. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY AND WARRANTY PERIOD SET FORTH ABOVE.

How state law relates to this warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your unit outside the United States or seek warranty coverage outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

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Care and Cleaning

CAUTION: Turn OFF your unir before cleaning.

You can clean the unit as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

The TV screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water. Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage your unit.

While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside your unit. Also, never place drinks or vases with water on top of your unit. This could increase the risk of fire or shock hazard or damage to the unit.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, etc. may cause similar damage. This damage is not covered by your warranty.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

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Visit the RCA website at www.rca.com/television

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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